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NOAA Technical Memorandum NMFS



SEPTEMBER 1987

ICHTHYOPLANKTON AND STATION DATA FOR CALIFORNIA COOPERATIVE OCEANIC FISHERIES INVESTIGATIONS SURVEY CRUISES IN 1959

Elizabeth G. Stevens Richard L. Charter H. Geoffrey Moser Morgan S. Busby

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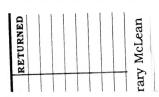


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Elizabeth G. Stevens Richard L. Charter H. Geoffrey Moser Morgan S. Busby

Southwest Fisheries Center National Marine Fisheries Service La Jolla, CA 92038

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CONTENTS

	Page
List of Figures	iii
List of Tables	iv
Abstract	1
Introduction	1
Sampling Area and Pattern	2
Sampling Gear and Methods	3
Laboratory Procedures	4
Identification	6
Computer Entry and Editing	10
Species Summary	11
Explanation of Tables	12
Acknowledgments	13
Literature Cited	14
Figures	17
Tables	31
Index	269

LIST OF FIGURES

			Page
Figure	1.	Composite arrangement of diagrammatic charts showing areas sampled on each CalCOFI cruise during 1959	17
Figure	2.	Station pattern for CalCOFI Cruise 5901 showing tracks for each vessel	18
Figure	3.	Station pattern for CalCOFI Cruise 5902	19
Figure	4.	Station pattern for CalCOFI Cruise 5903	20
Figure	5.	Station pattern for CalCOFI Cruise 5904	21
Figure	6.	Station pattern for CalCOFI Cruise 5905	22
Figure	7.	Station pattern for CalCOFI Cruise 5906	23
Figure	8.	Station pattern for CalCOFI Cruise 5907	24
Figure	9.	Station pattern for CalCOFI Cruise 5908	25
Figure	10.	Station pattern for CalCOFI Cruise 5909	26
Figure	11.	Station pattern for CalCOFI Cruise 5910	27
Figure	12.	Station pattern for CalCOFI Cruise 5911	28
Figure	13.	Station pattern for CalCOFI Cruise 5912	29
Figure	14.	The basic station plan for CalCOFI cruises from 1950 to the present	30

LIST OF TABLES

		Page
Table 1.	Station and plankton tow data for CalCOFI cruises in 1959	31
	Pooled occurrences of fish larvae taken during CalCOFI cruises in 1959	83
Table 3.	Pooled numbers of fish larvae taken during CalCOFI cruises in 1959	87
Table 4.	Numbers of fish larvae taken on stations occupied during CalCOFI cruises in 1959	91
Table 5.	Summary of pooled occurrences of fish larvae taken on CalCOFI cruises from 1951-1960	264
Table 6.	List of stations with multiple occupancies in one month during 1959	268

ABSTRACT

This report provides ichthyoplankton and associated station and tow data from California Cooperative Oceanic Fisheries Investigations (CalCOFI) cruises conducted off California and Baja California in 1959. It is the ninth report in a series that presents these data for all biological-oceanographic CalCOFI surveys from 1951 to the present. A total of 2182 stations was occupied during 12 monthly multivessel cruises over the quarter—million square mile survey area which extends from the California-Oregon border to Cape San Lucas, Mexico and seaward to several hundred miles. The data are listed in a series of 6 tables; the background, methodology, and information necessary for interpretation and quantitative analysis of the data are presented in an accompanying text. All pertinent station and tow data, including volumes of water strained and standard haul factors are listed in the first table. Another key table lists, by station and month, standardized counts of each of the 155 larval fish categories identified from survey samples. This and previous and subsequent reports make the CalCOFI ichthyoplankton and station data available to all investigators and serve as guides to the newly developed computer data base.

INTRODUCTION

This report, the ninth of a series, provides ichthyoplankton and associated station and tow data from California Cooperative Oceanic Fisheries Investigations (CalCOFI) joint biological-oceanographic survey cruises conducted in 1959. This program was initiated in 1949, under the sponsorship of the Marine Research Committee of the State of California, to study the population fluctuations of the Pacific sardine (Sardinops sagax) and the environmental factors that may play a role in such fluctuations. CalCOFI, known as the California Cooperative Sardine Research Program from 1949 to 1953, was made up of representatives of the South Pacific Fisheries Investigations (SPFI) of the U.S. Fish and Wildlife Service [now the La Jolla Laboratory, National Marine Fisheries Service (NMFS)], the Scripps Institution of Oceanography (SIO), the California Department of Fish and Game (CDFG), the California Academy of Sciences (CAS) and the Hopkins Marine Station of Stanford University. The first three of these agencies supplied ships and personnel to conduct the sea surveys. NMFS processed the plankton samples and analyzed the hydrographic samples and measurements and also analyzed invertebrate groups from the plankton samples.

The boundaries, station placement, and sampling frequency for the CalCOFI survey area were based on the results of joint biological and oceanographic cruises conducted by NMFS and SIO during 1939-41. Those cruises were designed to collect sardine eggs and larvae and associated hydrographic data over the entire areal and seasonal spawning range of the species. On these survey cruises, plankton tows were made to 70 m, a depth which

encompassed the vertical distribution of sardine eggs and larvae. Wide-ranging joint biological and oceanographic survey cruises were resumed in 1949 with sardine as the focus; however, an increasing interest in other biological components resulted in the deepening of standard tows to 140 m in 1951. This marked the beginning of truly quantitative ichthyoplankton sampling on CalCOFI surveys.

Data resulting from CalCOFI surveys in 1959 have been published in a number of forms. Hydrographic data (Reid et al., 1965), zooplankton volumes (Thrailkill, 1963; Smith, 1971), and ichthyoplankton data for selected species (Kramer, 1971) were presented in standard formats. The latter lists counts for eggs and larvae of sardine and for larvae of northern anchovy (Engraulis mordax), jack mackerel (Trachurus symmetricus), Pacific mackerel (Scomber japonicus), Pacific hake (Merluccius productus), and rockfishes (Sebastes spp.). Also, length frequencies are listed for sardine, anchovy, jack mackerel, and Pacific mackerel larvae. Distribution maps of eggs and larvae of of these taxa taken on CalCOFI surveys during 1959 are presented in the CalCOFI Atlas series (Kramer and Ahlstrom, 1968; Ahlstrom, 1969; Kramer, 1970; Ahlstrom et al., 1978). Other atlases provided distribution maps of 6 mesopelagic fish larvae (Ahlstrom, 1972) and 8 flatfish taxa (Ahlstrom and Moser, 1975) taken during 1959.

A computer data base for eggs and larvae of sardine anchovy and for larvae of hake, and the two mackerels was The development of a data base for other established in 1969. fish larvae is a complex undertaking because competency of identification has evolved steadily over the past 38 years. We began the task of producing a CalCOFI ichthyoplankton data base and associated data report series in 1983. All available original records for 1959 were subjected to an extensive verification and editing process to produce this report. and previous (Ambrose et al., 1987a, b; Sandknop et al., 1987a, b,; Stevens et al., 1987a, b; Sumida et al., 1987a, b) and subsequent reports make the CalCOFI ichthyoplankton and station data available to all investigators and serve as guides to the computer data base. The data base will be modified when additional errors are discovered and when composite taxa from the These reports are earlier years are reidentified. fundamental reference documents against which subsequent changes in the data base can be compared.

SAMPLING AREA AND PATTERN

In 1959, CalCOFI survey cruises were conducted at monthly intervals. A total of 2182 stations included in this data base was occupied on 12 cruises, with an average of 182 stations per cruise (range of 39-270). This was the largest number of stations occupied on any annual CalCOFI plankton survey during the period 1951-1960. Coverage of the survey station pattern varied among cruises and the entire quarter-million

square mile survey area was not covered on any single cruise (Figures 1-13; Table 1). The area off northern California (lines 43-57) was covered on only one cruise, in October; 3 stations only were occupied in July. Coverage off central California (lines 60-70) was more consistent with stations occupied in January, April, May, July, and October. The area from just north of Pt. Conception, California to Pt. San Juanico, Baja California (lines 73 or 77-137) was surveyed monthly, except for March, when coverage began on line 83, and November and December when it extended south only to San Diego (line 93). The area off southern Baja California (lines 140-157) was surveyed in January, April (to line 147) and August (to line 153). Coverage extended seaward to station 145 (ca. 370-450 miles offshore) on two lines in May but typically did not extend beyond station 90 (ca. 160-250 miles offshore). Heaviest coverage was during January, April, May, and July when 250 or more stations were occupied on each cruise. Seventy-five or fewer stations were occupied in September, November, and December.

Seven vessels were employed on these cruises: the Black Douglas and Hugh M. Smith of NMFS and the Spencer F. Baird, Horizon, Orca, Paolina T, and Stranger of SIO. One to four vessels participated on each cruise with three being the usual number. The Orca was used on all cruises except 5911, the Black Douglas was used on 8 cruises (January, February, May-October), and the Paolina T was used on 7 (February-July, November). The other 4 vessels were used on a total of 6 cruises.

SAMPLING GEAR AND METHODS

The standard CalCOFI net used from 1949 to 1969 had a 1-m diameter mouth opening (0.785 m^2 area) and an overall length of about 5 m. The net was constructed of 30xxx gauze, a heavy duty grade of silk bolting cloth, with a mesh size of 0.55 mm after shrinkage. The last 40 cm of the cone and the cod end were constructed of 56xxx grit gauze which had a mesh size of 0.25 mm after shrinkage. On parts of 2 cruises during 1959 (5901, 5908)

¹ CalCOFI lines (Figure 14) are arranged perpendicular to the coastline and extend from the Canadian border (line 10) to below Cape San Lucas, Baja California (line 157). Stations were established on the basis of a perpendicular to line 80 (off Pt. Conception) at a point designated as station 60. Stations were plotted seaward and shoreward from station 60 on each line. Cardinal CalCOFI lines (those ending in "0") are 120 miles apart and usually bracket two ordinal lines (ending in "3" or "7"), so that lines are 40 miles apart over most of the pattern. Cardinal stations are 40 miles apart and typically these are separated by a station number ending in "5" so that stations are 20 miles apart out to station 90 on most lines. Stations are placed at closer intervals near the coast and islands to accommodate these features (see Fig. 14 and Kramer et al., 1972 for further details).

the standard net was replaced with one constructed of nylon. Construction of the nets was similar; however, the nylon net had mesh sizes of 0.471 mm for the net body and 0.280 for the end of the cone and the cod end (Smith, 1971). The net ring was fastened to a short 3-lead bridle connected to several meters of line which attached to the towing cable by a clamp. A current meter was suspended in the center of the net mouth to measure volume of water filtered (see Kramer et al., 1972, for further details).

The standard tow from 1951 through 1968 was an oblique haul to 140 m depth (to 15 m of the bottom in shallow areas) designed to filter a constant amount of water per depth interval (ca. 3m³/m of depth) over the vertical range of most ichthyoplankters. Hauls were made at a ship speed of 1.5-2.0 knots and initiated by clamping the net line to the towing cable with the 45 kg terminal weight about 10-15 m below the surface. The net was lowered to 140 m depth by paying out 200 m of wire over a 4 minute period (35 m of depth/min.). After fishing at depth for 30 seconds, the net was retrieved at 20 m/min. (14 m depth/min.). The angle of stray of the towing cable was recorded every 30 seconds and maintained at 45° (+3°) by adjusting the ship speed and course. On the leg of Cruise 5908 occupied by the Hugh M. Smith, from line 130 south (see Table 1), tow depth was notably less than usual. There was difficulty in maintaining ship speed less than 2 knots, which caused the net to fish shallower strata than desired and resulted in low standard haul factors.2 reaching the surface, the net was washed down and the samples preserved in 5% formalin buffered with sodium borate. Flowmeter readings were made at the beginning and end of each tow. Detailed descriptions of gear and methods are given by Ahlstrom (1953), Kramer et al. (1972), and Smith and Richardson (1977).

LABORATORY PROCEDURES

Laboratory processing began with the determination of a displacement volume for each sample (methods described in Staff, SPFI, 1953 and Kramer et al., 1972). Zooplankton volumes (including ichthyoplankton) of samples collected in 1959 are listed in Thrailkill (1963) and presented graphically in Smith (1971).

Sorting involved the removal of ichthyoplankton from the sample and identification and separation of eggs and larvae of selected species (see introduction). Usually, each sample was sorted completely; however, some of the samples were fractioned into aliquots using a Folsom plankton splitter (McEwen et al.,

²Blackburn, M. Preliminary cruise report of CalCOFI Cruise 5908-M.

1954) prior to sorting. Several criteria³ were used to determine whether a sample was fractioned: samples containing an abundance of thaliacians and coelenterates and exceeding 150 ml in total plankton volume were fractioned (to 50%, 25%, 12.5%, or 6.25%) to approximate a reduced volume of 50 ml for sorting; samples with an excessive quantity of fish eggs and/or larvae were occasionally fractioned to expedite the sorting process in order to meet scheduled deadlines. If the identified fraction of an aliquot yielded rare or interesting species of fish larvae, the remaining fraction was frequently sorted and identified with the intent of finding additional specimens. Aliquot percentages for fractioned samples from 1959 are listed in Table 1 under the "Percent Sorted" column; in 1959 less than 2% of samples were fractioned.

A "standard haul factor" (SHF) was calculated for each tow to make them comparable and allow estimations of areal abundance. This factor adjusts the number of eggs or larvae in a haul to the number in 10 m 3 of water strained per meter of depth fished. If the vertical distribution of the species has been encompassed, then the adjusted value is equivalent to the number under 10 m 2 of sea surface. The SHF is calculated for each haul by the formula:

$$SHF = \frac{10 D}{V}$$

 $V = \text{total volume of water } (m^3) \text{ strained during the haul}$

$$V = R \cdot a \cdot p$$

where R = total number of revolutions of the current
 meter during the haul

 $a = area (m^2)$ of the mouth of the net

p = length of column of water (m) needed to produce one revolution of the current meter.

Tow depth, volume of water strained, and standard haul factor are listed in Table 1 for each tow taken during 1959. Detailed descriptions of factors involved in calculating these values are presented in Ahlstrom (1948), Kramer et al. (1972), and Smith and Richardson (1977).

³Personal communication, James R. Thrailkill, National Marine Fisheries Service, Southwest Fisheries Center, La Jolla, CA.

IDENTIFICATION

Identification of ichthyoplankton species beyond those separated during the sorting process was carried out by a separate group of specialists. Ontogenetic stages of fishes are inherently difficult to identify and this is further complicated by the large number and diversity of species which contribute to the ichthyoplankton of the California Current region. Most identifications were accomplished by establishing ontogenetic series on the basis of morphology, meristics, and pigmentation and then identifying these series by relating them to known metamorphic, juvenile, or adult stages with overlapping features (Powles and Markle, 1984). A total of 153 taxa was identified for 1959, with 82 taken to species, 33 to genus, 33 to family, and 5 to order. Some of the developmental series recognized originally could not be assigned scientific names, particularly in the Bathylagidae, Myctophidae, and Pleuronectiformes. These were given descriptive names, which later were changed to scientific names as they became known.

The task of producing a reliable and equitable ichthyoplankton data base required extensive procedures to verify, correct, and edit the original identifications. The primary data source was the original identification sheets (see Kramer et al., 1972, for examples); however, a critical resource all phases of this process was the CalCOFI ichthyoplankton collection in which the samples are archived. Throughout the course of CalCOFI ichthyoplankton studies, samples have been identified to the lowest taxon possible. In reviewing these identifications for the data base, our approach has been conservative and we have preserved those identifications and counts which we could confirm, while correcting as many of the errors as possible. During the coding of the identification sheets, the "descriptive types" were assigned scientific names and reexamined, if necessary. After computer entry, taxonomic errors and inconsistencies in the data base were corrected and the most obvious identification errors were corrected. current knowledge of ichthyoplankton techniques coupled with a precise understanding of the development of identification competency in the program over the years allowed us to critically judge the historical records. Identifications were changed to different taxa, lumped to a higher taxonomic category, or given a more precise taxonomic name. In many cases, identifications of a taxon were inconsistent among cruises in a year, because of varying competency of identifiers. These records were made equitable by lumping to the higher taxonomic category to avoid biases that could result in quantitative misinterpretations.

Next, statistical, seasonal, and geographic outliers were identified, employing a series of graphic summaries and listings. Examination of geographic outliers proved to be especially effective because of our accumulated knowledge of species distributions. In the course of examining samples for these outliers, other identification errors were discovered and eventually all taxa were scrutinized to some extent. Lastly,

- certain taxa were reexamined in all samples for the entire CalCOFI time series. These taxa were selected because of their commercial, ecological, phylogenetic, or zoogeographic importance or because taxonomic confusion was at the ordinal level. The following is a list of the taxa for 1959 which received special attention, with explanations and caveats intended to aid in quantitative interpretations:
- Anguilliformes tentative and sporadic identifications to family or lower taxon lumped to order.
- Sardinops sagax all specimens south of line 120 checked for misidentification of Opisthonema spp.
- Engraulidae includes nearshore taxa (mostly Anchoa spp.) large
 enough to separate from Engraulis mordax. Some nearshore
 samples of small E. mordax may contain other anchovy genera,
 but could not be differentiated.
- Nansenia spp. all specimens checked and identified as N. candida or N. crassa; all specimens of these species near their range boundaries checked.
- Sternoptychidae tentative and sporadic identifications of hatchetfishes to genus were lumped to family.
- Bathophilus spp. all specimens checked.
- Tactostoma macropus all specimens checked.
- Scopelarchidae tentative and sporadic identifications to genus lumped to family.
- Lampanyctus spp. tentative and sporadic identifications to species (mostly descriptive types) lumped to genus; identification of L. regalis and L. ritteri begun in 1954.
- Lampanyctus regalis underrepresented because of inability to differentiate small larvae (<5 mm) from those of other species of the genus; counts may include other species of the genus because of difficulty in identifying larvae of this large and complex genus.
- Lampanyctus ritteri comment for L. regalis applies to this species.
- Diogenichthys laternatus all specimens at margins of range checked.
- Electrona rissoi recognition of this species was inconsistent and others may be included in Protomyctophum crockeri or Myctophidae.

- Hygophum spp. all specimens reidentified to species; residuals
 are small, poorly preserved specimens.
- Myctophum aurolaternatum all specimens checked; originally
 identified as "Astronesthidae".
- Protomyctophum crockeri some samples on northern lines may
 contain P. thompsoni, which was not identified at the
 time; specimens below line 130 checked.
- Bregmaceros spp. all gadiform types (see Index), except
 Merluccius productus and Macrouridae, reexamined.
- Ophidiiformes this category did not exist originally and ophidiiform larvae were included in Brosmophysis marginata, Carapidae, "Otophidium", "Zoarcidae", and "blenny"; identifications of B. marginata and Carapidae proved to be mostly correct and "Zoarcidae" to be a yet unidentified ophidiiform species; all "Otophidium" and "blenny" were reexamined; the former included primarily Ophidion scrippsae; "blenny" contained O. scrippsae, C. taylori, and other ophidiiform taxa in addition to true blennioids.
- Ceratioidei identifications of this group were inconsistent and additional specimens may be in the unidentified fish larva category.
- Lophiidae specimen checked.
- Trachipteridae tentative and sporadic identifications to genus were lumped to family.
- Melamphaes spp. all identifications ascribed to Melamphaidae
 were reexamined and assigned to genus (Melamphaes,
 Poromitra) or species (Scopelogadus bispinosus); larvae
 originally identified as Melamphaes spp. were not
 reexamined and this category may contain other melamphaid
 genera.
- Cottidae some samples may include specimens of Scorpaenichthys marmoratus, hexagrammids (e.g., Oxylebius pictus, Zaniolepis spp.), and some blennioids (e.g., Hypsoblennius spp.).
- Oxylebius pictus all specimens checked; some reassigned to Zaniolepis spp.
- Zaniolepis spp. all specimens checked; some reassigned to Oxylebius pictus.
- Sebastes spp. category includes other scorpaenid genera, serranids, and other spiny-headed shorefishes, particularly in samples south of line 120.
- Sebastolobus spp. this category is underrepresented and additional specimens may be in Sebastes spp.

- Hypsoblennius spp. some specimens may remain in Cottidae.
- Clinidae some specimens remain in Cottidae or unidentified fish larva category.
- Labridae tentative and sporadic identifications to genus were lumped to family.
- Pomacentridae specimens checked; now includes species other than Chromis punctipinnis, primarily in the south.
- Chromis punctipinnis records south of about line 120 may include other pomacentrid taxa.
- Mugil spp. all specimens checked.
- Apogonidae all specimens checked.
- Carangidae all specimens checked; tentative and sporadic identifications to genus or species (except Trachurus symmetricus, Seriola lalandi, and Seriola spp.) were lumped to family.
- Seriola spp. specimens checked; probably S. rivoliana.
- Seriola lalandi all specimens checked.
- Gerreidae tentative and sporadic identification to genus were lumped to family.
- Haemulidae tentative and sporadic identification to genus were lumped to family.
- Girella nigricans all specimens checked.
- Medialuna californiensis all specimens checked.
- Caulolatilus princeps all specimens checked.
- Mullidae all specimens checked.
- Priacanthidae specimen checked.
- Sciaenidae tentative and sporadic identifications to genus lumped to family.
- Scombridae all larvae identified to this family or constituent taxa (except Scomber japonicus) were reexamined and reassigned when necessary.
- Nomeidae tentative identifications to genus lumped to family.
- Pleuronectiformes all available specimens of this category (originally called "flatfish") were examined and

- reidentified; residuals are small, poorly preserved specimens.
- Bothidae all specimens examined and reassigned; most were assigned to various paralichthyid genera or to *Bothus* spp.
- Citharichthys spp. all larvae identified to genus or to a species of the genus from 1954 to 1960 were identified to species; residuals are small, poorly preserved specimens, or those with variable taxonomic characters.
- Etropus spp. larvae of this taxon were originally lumped with Citharichthys spp.; present records result from complete reidentification of Citharichthys spp.
- Paralichthys spp. all specimens of this genus were examined and
 most were assigned to P. californicus or Xystreurys
 liolepis.
- Syacium ovale all specimens examined (originally called "spinyheaded bothid").
- Xystreurys liolepis originally misidentified as Paralichthys californicus; all specimens reidentified.
- Glyptocephalus zachirus all specimens examined.
- Microstomus pacificus all specimens examined.
- Pleuronichthys spp. all larvae of this genus and constituent
 species were examined and assigned to species; residuals are
 small, poorly preserved specimens.
- Psettichthys melanostictus all specimens examined.

COMPUTER ENTRY AND EDITING

Each taxon on the original identification sheets was given a 3-digit code based on the list of codes in Haight et al. (1979). Taxon codes and counts from these sheets were keypunched by cruise and station, along with pertinent station and tow data and entered into the VAX 11/780 computer at the University of California, San Diego Computing Center. After entries were completed for an entire year, print-out listings of taxa and counts on each station were compared with the original data sheets to eliminate keypunch errors. Next, data in the file were cross-checked with data on an existing file which contained: station and tow data; numbers of eggs of sardine, anchovy, and saury (Cololabis saira); numbers of larvae of sardine, anchovy,

hake, jack mackerel, and Pacific mackerel; total number of fish eggs; and total number of fish larvae.

Discrepancies in ichthyoplankton data in these two files were corrected by inspecting original records from the sorting laboratory, the original ichthyoplankton identification sheets, and the samples themselves. Station and tow data discrepancies between the two files were corrected by reviewing ships' logs and deck tow sheets, original records from the sorting laboratory, cruise announcements, publications, header information on the ichthyoplankton identification sheets, and station plots generated for each cruise. Eventually all station and tow data were checked by comparing these sources.

The corrected ichthyoplankton data base was then examined statistically and outliers were found and checked as above. Distributional plots were then prepared for each taxon and these were checked by reviewing the data sources mentioned above and by examining archived specimens. A listing of each taxon by station (Table 4) was produced, which became the primary document for subsequent checks. Misidentifications found in geographic outlier checks and other misidentifications and data problems discovered in the course of examining archived samples resulted in several iterations of Table 4. Finally, totals in Table 4 were checked against annual summaries of incidence and abundance (Tables 2 and 3). Ecological analyses of the data (Moser et al., 1987) were conducted concurrently with editing procedures and provided cross-checks that allowed correction of errors.

SPECIES SUMMARY

Larvae of northern anchovy (Engraulis mordax) represented 44% of all fish larvae taken on CalCOFI cruises during 1959 and ranked third in number of occurrences (Tables 2, 3). The second most numerous species was the gonostomatid Vinciguerria lucetia, with 25% and the third was the myctophid Triphoturus mexicanus, with 7.2%; these species ranked first and second in occurrences. The first three species in both rankings accounted for more than 76% of all fish larvae collected in 1959. Pacific hake ranked 4th in numbers (3.8%) and 11th in occurrences; rockfish, Sebastes spp., ranked 5th in both number (2.4%) and occurrences. deepsea smelt, Leuroglossus stilbius, ranked 6th in number and 13th in occurrences and three lanternfishes, Stenobrachius leucopsarus, Diogenichthys laternatus, and Ceratoscopelus townsendi ranked 7th, 8th, and 10th in numbers. The sardine, Sardinops sagax, ranked 9th (1.1% of larvae) but was 23rd in occurrences. Jack mackerel, Trachurus symmetricus, ranked 11th in numbers and 14th in occurrence. The 10 top-ranking taxa contributed 90% of all larvae taken during 1959; the remaining 10% was represented by 143 taxa plus the unidentified and disintegrated categories. Of the 10 most abundant taxa in 1959, 2 were coastal demersal species or genera, 6 were midwater species, and 2 were coastal pelagic species.

EXPLANATION OF TABLES

- Table 1 This table lists by cruise the pertinent station and tow data for 1959, the volume of water filtered and standard haul factor for each tow, the percent of sample sorted, and the total numbers of fish eggs and larvae. CalCOFI cruises are designated by four digits; the first two indicate the year and the second two the month. Within each cruise the data are listed in order of increasing line and station number (southerly and seaward directions); the order of station occupancy is shown on the station charts (Figures 2-13). Stations are designated by two groups of digits; the first set indicates the line and decimal fraction and the second set indicates the station on the line. fractions were used only on Cruise 5909. Decimal Time is listed as Pacific Standard Time at the start of each tow in 24-hour designation. Methods for determining tow depth, volume of water strained, standard haul factor, and percent sorted were described in the methods section. The values for total fish eggs and larvae represent raw counts (unadjusted for percent sorted or standard haul factor). The total egg number for station 73.51, Cruise 5902, >99,990, indicates that an estimated number of approximately 100,000 was arrived at by counting an aliquot. Ship codes are as follows: BD, Black Douglas; SB, Spencer F. Baird; HO, Horizon; OR, Orca; PT, Paolina T; HS, Hugh M. Smith; ST, Stranger.
- Table 2 This table lists pooled occurrences of all larval fish taxa taken during 1959 in ranked order.
- Table 3 This table lists pooled counts of all larval fish taxa taken during 1959 in ranked order. Numbers are adjusted for percent sorted and standard haul factors.
- Table 4 This table gives numbers of fish larvae for each taxon, listed by station and calendar month in which the tow was taken. Counts are adjusted for percent of sample sorted and standard haul factor. Average values are given for stations occupied more than once during a month. See Table 1 for station and tow data and Table for listing of stations with multiple occupancies during a month. Multiple occupancies occurred when a station was occupied more than once in the same calendar month; in some cases multiple occupancies resulted from separate cruises. The orders are listed in "phylogenetic" sequence modified from Nelson (1984). Subtaxa within each order are listed alphabetically. Page numbers for each taxon are given in the index at the end of the report.
- Table 5 This table is a summary of pooled occurrences of all larval fish taxa taken on CalCOFI surveys from 1951 to

1960. Taxa are listed in the same order as in Table 4.

Table 6 - List of stations with multiple occupancies in one month during 1959.

ACKNOWLEDGMENTS

Lois E. Hunter identified larvae from 9 cruises, about 84% of all samples collected in 1959; E. H. Ahlstrom and David Kramer identified the remaining samples. Ronald Whyte and Douglas Hammond coded each larval fish taxon or type and entered them into the computer. Debby Snow efficiently assisted in aspects of data editing and retrieval. Cindy Meyer, Larry Zins, and James Ryan provided programming assistance. Dorothy Roll designed the CalCOFI data acquisition system and provided processing support. Ken Raymond, Roy Allen, and Henry Orr helped with graphics and production of the report. Lorraine Prescott and Diane Forsythe prepared the manuscript for printing. Smith determined statistical outliers, provided assistance during geographical outlier checks and offered helpful suggestions throughout the project. Izadore Barrett, Director of the Southwest Fisheries Center and Reuben Lasker, Chief, Coastal Fisheries Resources Division, SWFC, provided the support critical to the completion of the project. James Thrailkill planned CalCOFI surveys and supervised cruises, data handling, and plankton sorting from 1949 to 1986 and is largely responsible for the high quality of these operations. Without the vision and direction of Elbert Ahlstrom and Elton Sette and the dedicated efforts of the many people who collected, processed, and analyzed the samples, this data base would not exist.

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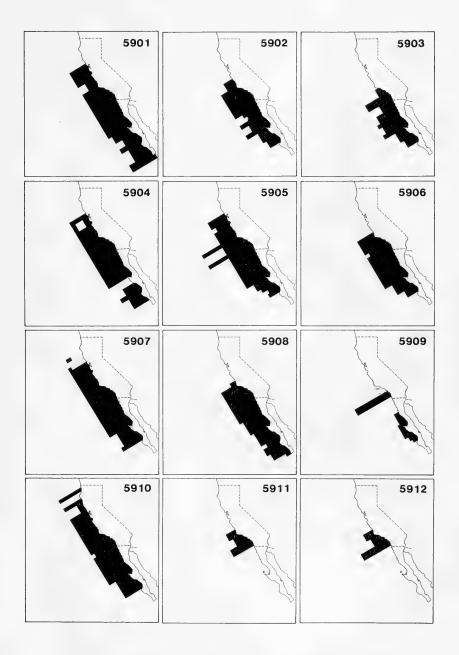


Figure 1. Composite arrangement of diagrammatic charts showing areas sampled on each CalCOFI cruise during 1959.

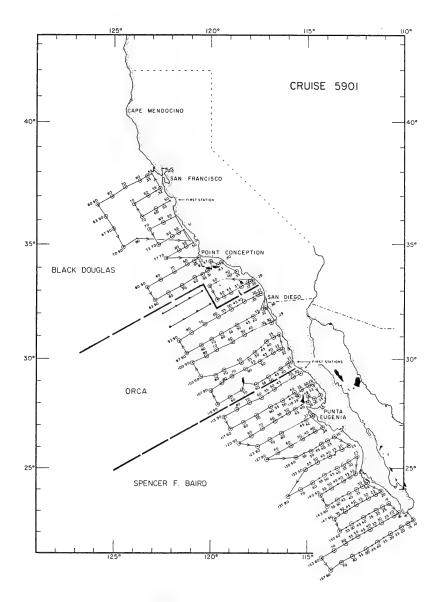


Figure 2. Station pattern for CalCOFI Cruise 5901 showing tracks for each vessel. Stations with plankton tows only are indicated by a dot; those with plankton tows and hydrographic measurements are shown by a dot and circle. Modified from charts in Reid et al. (1965) to include only those stations listed in Table 1 of this report.

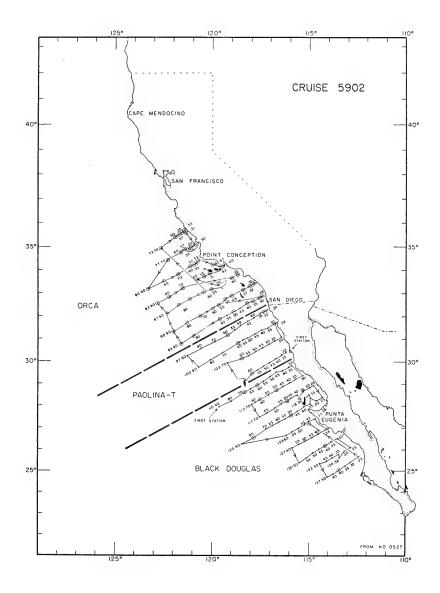


Figure 3. Station pattern for CalCOFI Cruise 5902. Symbols as in Figure 2.

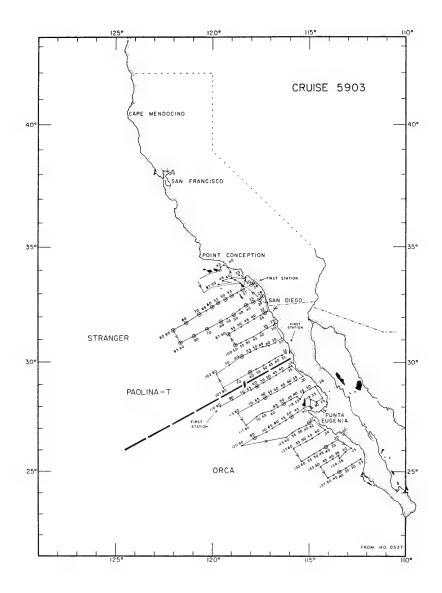


Figure 4. Station pattern for CalCOFI Cruise 5903. Symbols as in Figure 2.

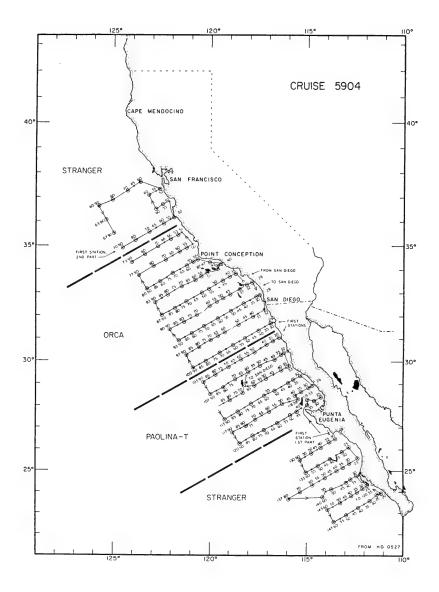


Figure 5. Station pattern for CalCOFI Cruise 5904. Symbols as in Figure 2.

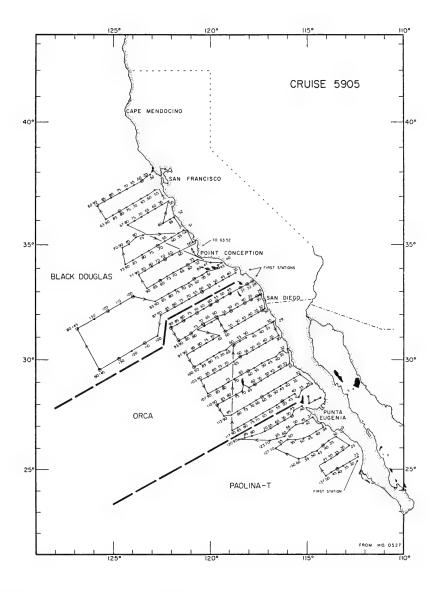


Figure 6. Station pattern for CalCOFI Cruise 5905. Symbols as in Figure 2.

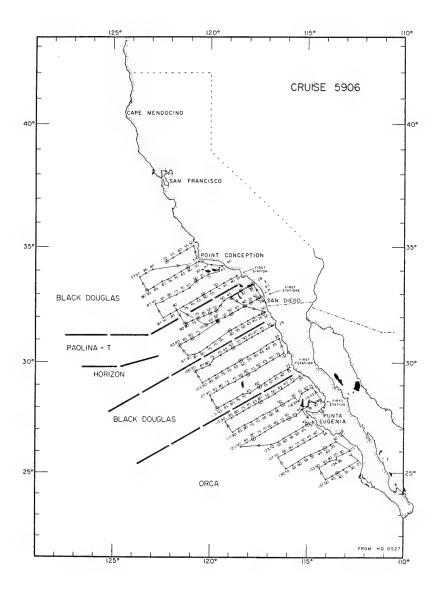


Figure 7. Station pattern for CalCOFI Cruise 5906. Symbols as in Figure 2.

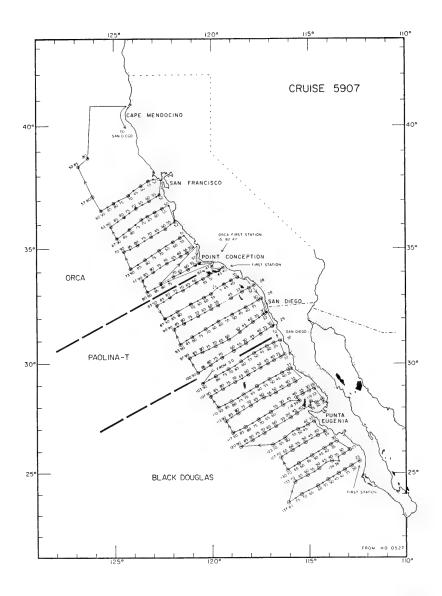


Figure 8. Station pattern for CalCOFI Cruise 5907. Symbols as in Figure 2.

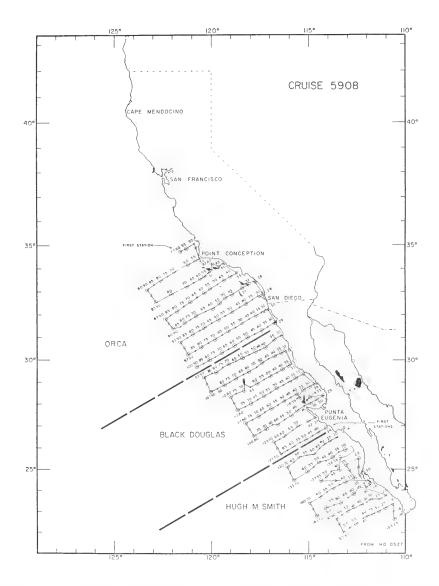


Figure 9. Station pattern for CalCOFI Cruise 5908. Symbols as in Figure 2.

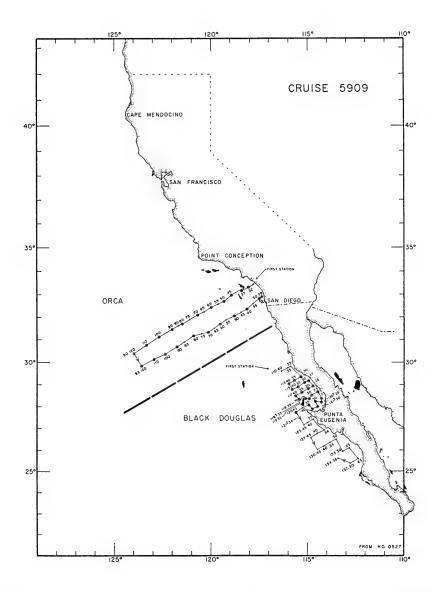


Figure 10. Station pattern for CalCOFI Cruise 5909. Symbols as in Figure 2.

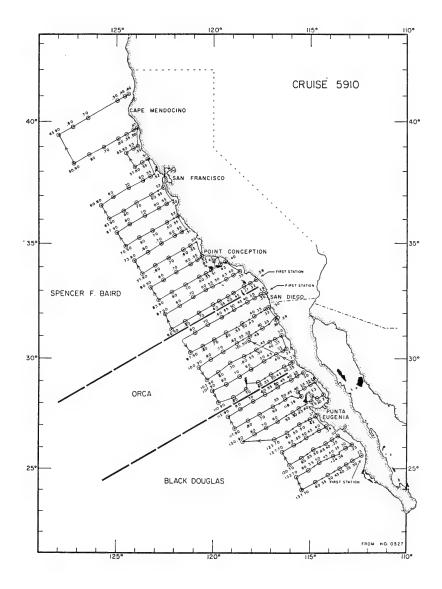


Figure 11. Station pattern for CalCOFI Cruise 5910. Symbols as in Figure 2.

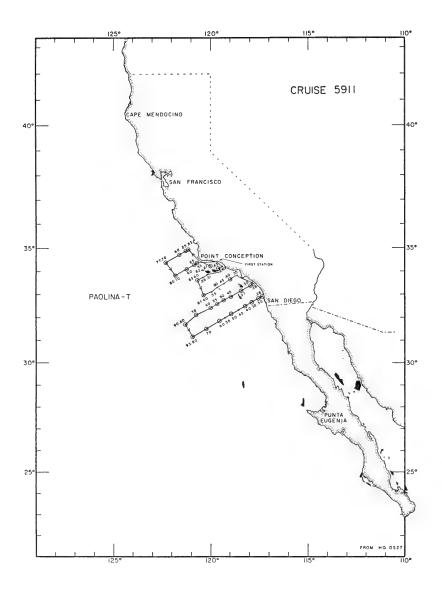


Figure 12. Station pattern for CalCOFI Cruise 5911. Symbols as in Figure 2.

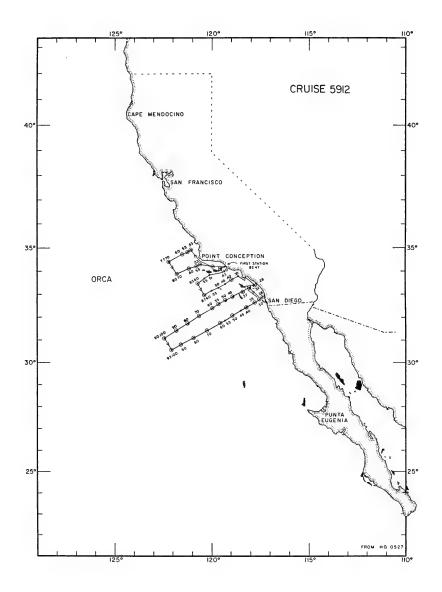


Figure 13. Station pattern for CalCOFI Cruise 5912. Symbols as in Figure 2.

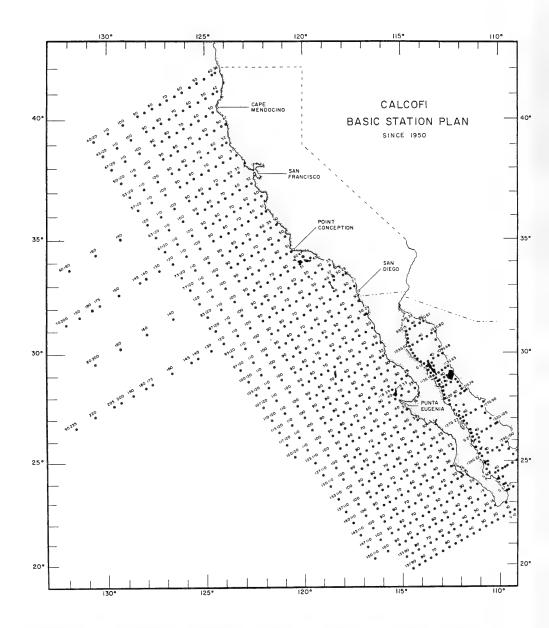


Figure 14. The basic station plan for CalCOFI cruises from 1950 to the present.

TABLE 1. Station and plankton tow data for CalCOFI cruises in 1959. Counts for fish eggs and larvae are not adjusted for standard haul factor or percent of sample sorted.

Total Eggs	9930 2030 2030 2030 350 350 350 360 360 360 360 360 360 360 360 360 36
Total Larvae	1000 1000 1000 1000 1000 1000 1000 100
Percent Sorted	
Stand- ard Haul Factor	22222222222222222222222222222222222222
Vol. Water Strained (cu. m)	00000000000000000000000000000000000000
Tow Depth (m)	7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8
Time (PST)	0002578
Tow Date yr. mo. day	559 01 17 559 01 17 559 01 17 559 01 17 559 01 17 559 01 17 559 01 17 559 01 17 559 01 18 559 01 18 559 01 18 559 01 18 559 01 18 559 01 18 559 01 18 559 01 18 559 01 18 559 01 18 559 01 18 559 01 18 559 01 18 559 01 18 559 01 22 559 01 22 559 01 22 550 01 22 550 01 22 550 01 22
Ship Code	
Long.(W) deg. min.	123 101 124 230 127 315 127 320 128 320 128 320 128 347 128 347 128 347 128 347 128 350 129 350 121 240 121 240 121 240 121 240 121 340 121 340 121 340 121 340 121 350 121 360 121 360 122 360 123 360 124 360 125 360 126 360 127 360 128 360 129 360 120 360 120 360 121 360 121 360 122 360 123 360 124 360 125 360 126 360 127 360 128 360 129 360 120 360 120 360 120 360 121 360 122 360 123 360 124 360 125 360 126 360 127 360 128 360 129 360 120
Lat.(N) deg. min.	333 33 34 4 4 5 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6
Station	\$25.00 \$25.00
Line	660 660 660 660 660 660 660 660 660 660

CalCOFI Cruise 5901

Total Eggs	E 4 201 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Total Larvae	278 1070 1070 1070 3399 345 3599 3599 3599 3599 3599 3699 36999 3799 3799 3799 3799 3799 3
Percent Sorted	
Stand- ard Haul Factor	EEEEEGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
Vol. Water Strained (cu. m)	44044444444440000444444440004444444444
Tow Depth	145 147 147 147 147 147 147 147 147 147 147
Time (PST)	23351 003330 003330 003330 003330 003350 00440 0
Tow Date yr. mo. day	559 001 25 559 001 25 559 001 26 559 002 08 559 002 08 559 002 08 559 002 08 559 002 08 559 001 27 559 001 27 559 001 27 559 001 101 559 001 101 550 001 550 001 101 550 001 550 001 101 550 001 101 550 001 101 550 001 101 550 001 101
Ship	98888888888888888888888888888888888888
Long.(W) deg. min.	1118 37 120 0 0 29 55 55 121 0 0 20 55 55 122 0 0 20 55 55 123 0 0 20 55 55 124 0 20 55 55 125 0 20 55 55 126 0 20 55 55 127 0 20 55 55 128 0 20 55 55 129 0 20 55 55 120 0 20 55 12
Lat.(N) deg. min.	333 50.0 33 2 20.0 33 2 20.0 35 2 20.0 36 2 20.0 37 2 20.0 38 2 20.0 3
Station	4 3 3 2 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 9 8 9
Line	8877.00.00.00.00.00.00.00.00.00.00.00.00.0

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Total Eggs	4 2 2 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2
Total Larvae	441 113 114 115 117 117 118 118 118 118 118 118 118 118
Percent Sorted	
Stand- ard Haul Factor	27227727272727272727272727272727272727
Vol. Water Strained	56 50 50 50 50 50 50 50 50 50 50
Tow Depth	1133 14422 134422 134422 13442 13442 13442 13442 13442 13442 13442 13442 13442 13443 14443
Time (PST)	00000000000000000000000000000000000000
Tow Date yr. mo. day	\$59 00 114 \$59 00 114 \$59 00 114 \$59 00 113 \$59 00 113 \$59 00 111 \$59 00 111 \$59 00 111 \$59 00 111 \$59 00 10 10 \$59 00 10 10 \$59 00 10 10 \$59 00 10 10 \$59 00 10 10 \$59 00 10 10 \$59 00 10 10 \$59 00 10 10 \$59 00 10 10 \$59 00 10 10 \$59 00 10 10 \$59 00 10 10 \$59 00 10 10 \$59 00 10 10 \$59 00 10 10 \$59 00 10 10 \$59 00 10 10 \$50 00 10 10 \$50 00 10 10 \$50 00 10 10 10 \$50 00 10 10 10 10 10 10 10 10 10 10 10 10
Ship Code	888888888888888888888888888888888888888
Long.(W) deg. min.	118 13 119 4 49 110 6 25 110 6 25 111 6 25 111 7 24 111 7 24 111 7 24 111 7 24 111 7 25 111 7 25
Lat.(N) deg. min.	229 230 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Station	0.000000000000000000000000000000000000
Line	00000000000000000000000000000000000000

Total Eggs	178 29 29 29 28 20 20 20 20 20 20 20 20 20 20 20 20 20
Total Larvae	108 1108 1117 1177 1177 1177 1177 1177 1
Percent Sorted	
Stand- ard Haul Factor	22222222222222222222222222222222222222
Vol. Water Strained	33 33 30 30 30 30 30 30 30 30
Tow Depth (m)	81 1322 1322 1324 1324 1324 1334 1337 1337 1337 1337 1337 1337 133
Time (PST)	1957 1746 1746 1746 1746 1846 1846 1846 1846 1846 1846 1846 18
Tow Date yr. mo. day	\$55 90 01 11 11 11 11 11 12 12 12 12 12 12 12 12
Ship Code	23 25 25 25 25 25 25 25 25 25 25 25 25 25
Long.(W) deg. min.	11111111111111111111111111111111111111
Lat.(N) deg. min.	288 48.2 288 48.2 288 11.2 288 11.2 288 11.2 288 11.2 288 11.2 288 11.2 288 11.2 288 11.2 288 22.7 288 28.8 288 22.7 288 288 28.7 288 288 28.7 288 288 28.7 288 288 288 288 288 288 288 288 288 288
Station	0.000000000000000000000000000000000000
Line	1117.00 1117.0

Total Eggs	28833333333333333333333333333333333333	15
Total Lárvae	21 108 108 108 108 108 108 108 108 108 10	80
Percent Sorted		100.0
Stand- ard Haul Factor	02222212222222222222222222222222222222	2.22
Vol. Water Strained	700810394400044400040404040404040404040404040	573
Tow Depth	76 121 124 124 125 127 127 127 127 127 128 138 138 148 148 148 148 148 148 148 148 148 14	127
Time (PST)	00 100 100 100 100 100 100 100 100 100	0726
Tow Date yr. mo. day	5559 011 22 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	0.1
Ship	######################################	SB
Long.(W) deg. min.	11111111111111111111111111111111111111	
Lat.(N) deg. min.	2222222333322 222222222222222222222222	
Station	84488898884488884488888488888888888888	35.0
Line	11111111111111111111111111111111111111	150.0

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Total Eggs	175 39 7	12	338	56	63 118	31	317	204	177	46	248	26	48	203	49	36	53	147	112	29	1
Total Larvae	13 14 5	16	, 1,	23	2 4 5	4.	4 80	5	12	61	18	13	13	19	- 00	20	22	09	10	12	
Percent Sorted	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	,
Stand- ard Haul Factor	2.64 2.42 2.81	2.99	2.50	2.88	2.34	2.67	2.78	2.51	2.90	2.97	3,19	2.50	2.29	2.30	2.44	2.60	2.59	2.41	2.71	2.58	}
Vol. Water Strained (cu. m)	534 548 514	616 476	556 506	487	547	524	517 581	543	503	484	468	554	267	573	553	534	537	546	525	522	1
Tow Depth	141 133 145	123	138	148	128	140	144	137	146	143	149	138	130	132	135	139	139	132	142	135)
Time (PST)	0501 0226 0111	2126 1901	2016	0105	0606	1046	1331	1846	2336	0301	1946	1651	1411	1151	0.00	9050	0041	2106	1826	0001	1170
Tow Date yr. mo. day		59 01 22 59 01 22				_		_			_	_	_		_	_	_	_			
Ship	SB	SB	SB	SB	SB	SB	SB	SB	SB	S S	SB	SB	SB	SB	o o	S C	SB	SB	SB	S	0.00
Long.(W) deg. min.	111 59.2 112 17.0 112 34.8																				
Lat.(N) deg. min.	22 42.5 22 32.3 22 32.3	22 12.4 22 01.2	22 55.0 22 47.0	22 33.6	22 16.0	21 57.5	21 48.0	21 29.0	21 06.2	20 44.0	22 23.0	22 14.0	22 03.6	21 54.0	21 43.5	21 21 . 1	21 12.6	21 03.0	20 53.3	20 32.8	0.11 02
Station	45.0	55.0	16.0	30.0	32.0	45.0	50.0	60.0	70.0	0.0	15.0	20.0	25.0	30.0	35.0	40.0	50.0	55.0	0.09	0.07	00.00
Line	150.0	150.0	153.0 153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0	157.0	157.0	157.0	157.0	15/.0	157.0	157.0	157.0	157.0	157.0	0.761

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Total Eggs	549 11567 11669 14788 19008 19008 1003 10013 100	
Total Larvae	496 465 4655 8839 1137 1137 121 121 121 121 121 121 121 121 121 12	
Percent Sorted		
Stand- ard Haul Factor	84844444444444444444444444444444444444	
Vol. Water Strained (cu. m)	886994444889333545464889333334333343333433343334333433343334	
Tow Depth	100 100 100 100 100 100 100 100 100 100	
Time (PST)	1651 1151 1151 1151 1151 1151 1151 1151	
Tow Date yr. mo. day	\$59 002 110 00	
Ship Code	888888888888888888888888888888888888888	
Long.(W) deg. min.	1221 1221 1221 1221 1221 1222 1223 1223	
Lat.(N) deg. min.	3332245400000000000000000000000000000000	
Station	0.000000000000000000000000000000000000	
Line	733.00 773.00 773.00 777.00 77	

tal Js	16 16	12	22 20	72	24	19	10	10	6 6	0	7 7	162	34 c L	73	86	4.4	1	0	45 85	53	12	11.	65	42	38	29	709 854
Tota] Eggs				,,										• • •											_,	.,	18
Total Larvae	4∞0	572	nπ	169	107	11	0	J LO	9 8	2	0 0	49	27	21	90	o m	2 3	0 9	12	24	14	7	12	m	m	ى م	32
Percent Sorted	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Stand- ard Haul Factor	2.85	2.92	2.72	2.99	2.94	2.69	1.92	2.51	2.62	2.65	2.52	2.63	2.32	2.33	2.28	2.13	2.65	2.30	3.62	2.63	2.40	2.31	2.60	2.26	2.54	2.52	2.95
Vol. Water Strained	496 480 582	505 486	515 565	475	474	515	169	551	534	532	545	537	592	546	599	619	496	570	430	541	2/43	550	552	603	546	562 603	456
Tow Depth (m)	141	141	140	142	139	138	32	138	140	141	137	142	137	127	137	132	131	131	156	142	138	127	143	136	139	142	134
Тіше (PST)	1901 1336 0816	1526	1826 2146	0026	0641	2116	0339	9800	2126	1536	1256	0356	2236	1826	1926	0110	0416	1056	1526	0526	1026	9160	0636	9500	2216	1916	1246 1446
Tow Date yr. mo. day	59 02 26 59 02 26 59 02 26	02 24	02 24 02 24	02 25 02 25	02 25	02 25	02 14	02 14	02 13	02 13	02 13	02 13	02 12	02 10	02 10	02 10	02 11	02 11	02 11	02 12	02 12	02 10	02 10	02 10	02 09	02 09 02 09	02 07 02 07
Ship Code y	O O O	88	88	888	888	588	I.	PT	E E	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	PT	T FG	PT	PT	ρŢ	PT	ī ī	PT PT
Long.(W) deg. min.	120 36.0 121 18.0 121 58.5																										
Lat.(N) deg. min.	32 00.0 31 44.0 31 25.0																										
Station	70.0 80.0 90.0	30.	40.	50.	22.0	800	30.	35.	40.	50.	9 2	70.	80	29.	30.	40.	45.	55.	60.	80.	30.	35.	40.	50.	55.	70.	
Line	90.06	93.0	93.0	93.0	93.0	93.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	103.0	103.0	103.0	103.0	103.0	103.0	107.0 107.0

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Total Eggs	47 28 28 28 287	730 36 24 63 119	182 182 37 129 13	10 678 77 37 29 174 321 83	74/ 74/ 74/ 74/ 74/ 74/ 74/ 74/ 74/ 74/	
Total Larvae	5 44 11 11 70 70	22 28 28 28 28	0 27 27 64 106 484 27	15 12 12 12 210 210 246	109 109 109 109 110 10 10 10 10 10 10	
Percent Sorted	100.0 100.0 100.0 100.0	000000000000000000000000000000000000000	100.0 100.0 100.0 100.0	1000.00		
Stand- ard Haul Factor	2.37 2.28 1.90 1.90 3.02	23.00 23.00 23.09 23.13 23.13	2.75 2.94 2.94 2.98 2.98 54	2.91 2.75 3.08 3.08 3.11 2.56 2.68	22.22.22.22.22.22.22.22.22.22.22.22.22.	
Vol. Water Strained (cu. m)	595 579 600 661 564 279	456 470 502 460 478 492	504 479 194 457 522	487 461 461 2464 366 591	6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Tow Depth	141 137 138 138	135 1442 1442 1443	139 141 142 142 133	11422 1442 1396 1396	1338 1338 1338 140 140 143 136 136 136 136 136 136	
Time (PST)	1736 2026 2316 0156 0546 1248	1121 0831 0606 0341 0111 2226	1546 1011 0446 1732 1956 2231	0526 0750 1106 1241 1426 0118 2317	0526 0526 0526 0312 0036 1210 1210 0619 0619 1721 1253 0121	
Tow Date yr. mo. day	000000000000000000000000000000000000000	222222 000000 000000	222222 000000 0000000	222222222	559 02 16 559 02 16 559 02 16 559 02 16 559 02 15 559 02 17 559 02 17 559 02 17 559 02 17	
Ship Code						I
Long.(W) deg. min.		200999		203. 203. 203. 203. 106.	1115 55.5 5 1116 6 06.3 5 1116 6 06.3 5 1117 6 06.3 5 1117 7 08.0 6 1118 7 118	1
Lat.(N) deg. min.					28 18.0 28 18.0 28 12.3 28 12.3 27 51.0 28 12.0 28 13.0 27 43.0 27 23.0 27 23.0	
Station	85.0 85.0 85.0 85.0 85.0 85.0	24440000000000000000000000000000000000	70.0 80.0 30.0 440.0	20000000000000000000000000000000000000	44 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0))
Line	107.0 107.0 107.0 107.0 110.0	110.00000000000000000000000000000000000	110.0	113.0 113.0 113.0 117.0	117.0 1117.0 1117.0 1117.0 1118.0 1118.0 1120.0 1120.0 1120.0	1

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Total Eggs	20 10 21	24 35	42	52	55	101	512	61	40	97	55	313	347	122	19	20	101	329	190	40	62	16	77	154	6.4	469	48	28	0 7
Total Larvae	1 6	71	31	טי ע	50	7 5	. 9	9	118	73	13	224	26	26	۰ د	7.	TT	119	34	7	13	90	0 u	825	226	13	10	33	•
Percent Sorted	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.001	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.001	0.001	100.0	100.0	100.0	100.0
Stand- ard Haul Factor	2.90 2.92 2.89	2.68	2.82	3.23	2.97	3.10	2.87	2.94	2.94	3 00	2.97	2.21	2.90	2.99	2.85	3.05	3.02	2.87	2.69	2.59	2.63	2.96	20.0	3.17	2 67	2.91	3.10	2.94	3.00
Vol. Water Strained	480 475 474	513	487	465	466	456	226	478	470	516	475	259	478	466	488	465	458	279	485	498	497	482	402	429	407	474	446	480	7440
Tow Depth	139 139 137	138	138	140	138	142	65	140	138	141	141	57	138	139	139	142	138	80	130	129	131	142	144	136	102	138	139	141	130
Time (PST)	0356 0626 1131	1611	2326	1846	1341	1011	1323	1616	1906	2215	0336	0053	2216	1956	1646	1406	1116	0548	0826	2146	9500	0336	0631	1936	2272	2011	1651	1416	0611
Tow Date yr. mo. day	59 02 18 59 02 18 59 02 18	02	020	02	02	02	02	02	02	02	02	0.2	02	0.2	02	02	70	02	02	02	02	02	70	0.5	9 0	200	02	02	70
Ship	8D 8D 8D	BD	BD	BD BD	BD	BD	9 6	ממ	BD	BD	BD																		
Long.(W) deg. min.	116 51.0 117 10.5 117 48.5																												
Lat.(N) deg. min.	27 04.5 26 55.0 26 32.5																												
Station	65.0 70.0 80.0	90.06	42.0	42.0	50.0	55.0	34.0	40.0	45.0	50.0	22.0	30.0	35.0	40.0	45.0	50.0	55.0	25.0	30.0	35.0	40.0	45.0	20.0	36.0	23.0	30.0	40.0	45.0	20.0
Line	120.0	120.0	123.0	123.0	123.0	123.0	127.0	127.0	127.0	127.0	127.0	130.0	130.0	130.0	130.0	130.0	130.0	133.0	133.0	133.0	133.0	133.0	133.0	134.0	137.0	137.0	137.0	137.0	13/.0

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Total Eggs	732 5130 5130 5130 663 664 664 664 664 664 664 664
Total Larvae	2279 2279 2370 2274 1069 111 111 111 111 111 111 111 111 111 1
Percent Sorted	
Stand- ard Haul Factor	0.000
Vol. Water Strained	1114489334 11174 11186 1118
Tow Depth (m)	110 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Time (PST)	10000000000000000000000000000000000000
Tow Date yr. mo. day	\$59.003.25 \$59.003.25
Ship	
Long.(W) deg. min.	1119 9 22 33 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Lat.(N) deg. min.	334 144.0 337 24 144.0 338 34 24 24 24 24 24 24 24 24 24 24 24 24 24
Station	44W44RVW4RVR0RV8WW44RVR0RVWW44RVR0RVWW44RVR0RVWW44RVR0RVWWWWWWWWWW
Line	8833.0 8833.0 8837.0 8877.0 8877.0 8877.0 8977.0 8937.0 89

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Total Eggs	147 36 37 13	1881	27 372 485 199	76 147 49	16 285 285	141 100 353 19	333	17 19 40 47	24 48 23 23	18 18 50 86 1472	1041 1116 1116 41 13	
Total Larvae	16 7 4	17	44 35 12	62 12 15	2003	104 40 61 67	100	32217	43119 404	1 4 155	80 248 186 79 30	
Percent Sorted	100.0	100.0	100.0	100.00	00000	000.00	00000	00000	000000	000000	100.0 1000.0 1000.0 1000.0	
Stand- ard Haul Factor	2.92 2.48 2.30 2.55	2.37 2.79 2.46	2.73 2.56 2.56	2.37 2.58 2.69 2.51	22.85	2.93 2.93 2.93 4.01	2.70	2.56 3.00 2.60	2.96 3.20 3.16	22.93 2.93 2.94 2.54	2.83 2.04 2.79 2.85 2.85	
Vol. Water Strained (cu. m)	496 555 562 538	554 507 544	505 514 533	582 536 523	562 501 338	4883 4440 7.195	504 517 507	546 490 138	4 4 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	202 484 451 240	324 519 467 506 480	
Tow Depth (m)	145 138 129 137	132 142 134	145 140 139	138 138 141	1335 1435 853	142	440040	147 147 36	142 149 147	142 148 141 62	92 139 142 141 140	
Time (PST)	0746 0447 1436 1226	0926 0636 0031	1911 0836 1046	1635 1931 2226 0156	0706 1226 0843	0716 0321 0026	1830 1545 1220	2351 1329	1910 2200 0041 0326	1011 1256 1811 0845	0640 0400 2236 1936 1651	
Tow Date yr. mo. day	03 2 03 2 03 1	03 1	03 1	030000	030	03 1	0333	00000	00000	00000	59 03 17 59 03 17 59 03 16 59 03 16 59 03 16	
Ship Code y	FFF	PT PT	rr rr	FFF	PT OR	8888	5888	5888	88888	****	888888	
Long.(W) deg. min.	43. 23.	8 01. 9 28.	9 44. 6 10. 6 21.	7 02.	523.	6 00. 6 39.	7 38.		6 36. 6 36.	7 35. 7 35. 7 54. 8 38. 4 40.	114 56.5 115 16.0 115 35.5 115 55.0 116 15.3	
Lat.(N) deg. min.											28 48.0 28 38.0 28 28.0 28 18.0 27 57.5	
Station	35.0 40.0 45.0	55.0 60.0 70.0	32.0	20.00 0.00 0.00 0.00	70.0 80.0 33.0	35.0 40.0 45.0	20000	30.00	0.044 0.05 0.05 0.05 0.05	20.00 20.00 20.00	0.0044000 0.000000000000000000000000000	
ine S	03.0	03.0	03.0	00000	07.0	0.000	0.00	30000	00000	13.0	117.0 117.0 117.0 117.0	

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Total Eggs	114127112 222222222222222222222222222222
Total Laryae	7 2 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Percent Sorted	
Stand- ard Haul Factor	22222222222222222222222222222222222222
Vol. Water Strained	000044899999999999999999999999999999999
Tow Depth	114449 1203
Time (PST)	1026 00700 00700 00700 00700 00700 00715 00801 00810 00811 10800 00811 10800 00811 10800 00811 1
Tow Date yr. mo. day	\$25,559 \$25,55
Ship	888888888888888888888888888888888888888
Long.(W) deg. min.	11116 5 2 3 3 3 2 5 3 3 3 3 5 3 3 3 3 3 3 3 3
Lat.(N) deg. min.	227 447.7 227 447.7 228 119.0 228 119.0 228 119.0 227 48.5 227 48.0 227 48.0 227 48.0 227 48.0 228 13.0 228 43.0 228 43.0 228 43.0 228 43.0 228 43.0 228 23.0 228 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0
Station	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
Line	111177 1111777 11117777 11117777 11117777 11117777 11117777 11117777 11117777 11117777 111177 111777 11177 11777 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1177 1

TABLE 1. (cont.)

	,	Total Eggs	224	998	634	44	103
		rotal Larvae	217	32	11	42	24
		Percent Sorted	100.0	100.0	100.0	100.0	100.0
	Stand- ard	Factor	2.95	2.93	2.91	2.97	2.93
	Vol. Water	(cu. m)	472	480	497	471	484
5903	Tow	Deptn (m)	139	141	144	140	142
Cruise	i	(PST)	1815	1526	1156	0821	9090
CalCOFI Cr	g E	row Date yr. mo. day		03	03	59 03 23	03
		Code	OR	OR	OR	OR	OR
		deg. min.	112 46.0	_	• •	•	_
		deg. min.	25 19.5				
		Station	30.0	35.0	40.0	45.0	50.0
		ine	37.0	37.0	37.0	37.0	37.0

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Total Eggs	20 325 63 116	307 77 27 27	39 39 53 258 265	387 154 34 68 68	134 8 27 197 41 68	102 102 18 18 24 30 30 38	116 32 28 139 34 28 327 133 14
Total Larvae	5 39 12 153	16 156 26 76 26	28 28 108 160 286	207 190 59 72 113	170 21 247 33 33	413 391 1155 25 25 76	748 663 565 297 82 12 12 15 15
Percent Sorted	50.0 12.0 100.0 50.0	1000.0	000000	50.0 1000.0 1000.0	1000.0000000000000000000000000000000000	1000.0000000000000000000000000000000000	100000000000000000000000000000000000000
Stand- ard Haul Factor							33.00 33.17 33.17 33.18 22.95 13.25 13.25
Vol. Water Strained	460 410 490 490 418	216 457 494 399	506 485 487 462	469 531 514 512 462	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2444444 2000 24082 24082 24083	0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Tow Depth	136 138 134 133	135 137 140	133 133 133 133 136	142 121 135 134	137 140 145 145	106 1442 1340 1443	1145 1146 1146 1138 1138
Time (PST)	0641 0906 1216 1711 2211	0043 2326 2111 0301 1012	1236 1606 0751 0456 0251	2126 1906 1411 0936 1006	1256 1646 1951 2336 0506	0507 0206 2321 1946 1706 0506	2223 0106 0516 0846 1116 11506 1751 2116 1346
Tow Date yr. mo. day	004 004 044 044	00000	00000	004444	0044	4444444	559 569 569 569 569 569 569 569
Ship Code	STS	STS	STSSTS	ST ST OR	8888888	88888888	888888888888
Long.(W) deg. min.							120 48:50 121 09:5 121 31:0 121 11:0 122 32:0 123 13:0 119 57:5 119 57:5
Lat.(N) deg. min.	25-23	44004	40000	46400	240254	0046404	34 18.7 34 18.7 34 109.2 33 3 50.0 33 3 20.0 34 15.5 34 15.5
Station	60.0 65.0 70.0 80.0	552.0 60.0 90.0 50.0	655 655 655 655 655 655 655 655 655 655	65.0 70.0 80.0 90.0 51.0	55.0 60.0 70.0 80.0	00000000000000000000000000000000000000	447.00000000000000000000000000000000000
Line	0.000	63.0	67.0 67.0 70.0 70.0	70.0	73.0 73.0 73.0 73.0 73.0	77.0	88888888888888888888888888888888888888

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Total Eggs	1009 1009 246 246 306 494 494 494 1538 1538 1699 1101 1011	
Total Larvae	544 4844 1684 1684 1684 179 179 179 179 179 179 179 179	
Percent Sorted		
Stand- ard Baul Factor	02020202020202020202020202020202020202	
Vol. Water Strained (cu. m)	\$60.00000000000000000000000000000000000	
Tow Depth	113868323832444444444444444444444444444444	
Time (PST)	00751 1926 1926 1926 1926 1926 1926 1926 1936 1936 1936 1936 1936 1936 1936 193	
Tow Date yr. mo. day	\$59 004 113 \$50 004 113 \$50 004 1 \$50 004 1 \$50 004 1 \$50 004 1 \$50 004 1 \$50	
Ship Code	888888888888888888888888888888888888888	
Long.(W) deg. min.	1119 1200 1210	
Lat.(N) deg. min.	333 393 393 393 393 393 393 393 393 393	
Station	70000000000000000000000000000000000000	
Line		

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Total Eggs	753 1122 1122 1322 1322 1322 1322 1322 13
Total Larvae	26 101 101 260 102 103 103 103 103 103 103 103 103 103 103
Percent Sorted	
Stand- ard Haul Factor	22222222222222222222222222222222222222
Vol. Water Strained (cu. m)	44444044404440044000000000000000000000
Tow Depth	11029
Time (PST)	00000000000000000000000000000000000000
Tow Date yr. mo. day	\$250.000
Ship Code	######################################
Long.(W) deg. min.	120 54 1121 134.7 1121 134.7 1121 134.7 1120 131.7 1130 134.7 1130
Lat.(N) deg. min.	330 01.3 330 01.3 331 11.5 332 11.0 331 14.6 331 14
Station	0.000000000000000000000000000000000000
Line	99333. 99777.

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Total Eggs	35 136 136 368 333 3368 3368 337 345 345 345 345 345 345 345 345 345 345	
Total Larvae	32 36 38 38 38 31 10 10 10 10 10 10 10 10 10 1	
Percent Sorted	000000000000000000000000000000000000000	
Stand- ard Haul Factor	$\begin{array}{c} \texttt{E} & $	
Vol. Water Strained (cu. m)	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Tow Depth (m)	4738807880788078880788807888078880788807	
Time (PST)	0451 12531 12531 12531 12531 12531 12531 12531 1255 1255	
Tow Date yr. mo. day	\$59 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Ship Code		
Long.(W) deg. min.	1117 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Lat.(N) deg. min.	229 49.9 229 49.9 229 31.8 229 31.8 229 22.3 229 22.3 229 22.3 229 22.3 229 22.3 229 22.3 220 220 22.3 220 220 220 220 220 220 220 220 220 220	
Station	0.000000000000000000000000000000000000	
Line	000000000000000000000000000000000000000	

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Total Eggs	559 1128 11383 11383 11383 11383 1130 120 120 120 130 130 130 130 130 130 130 130 130 13
Total Larvae	118 119 119 122 139 139 139 139 147 15 16 17 18 18 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19
Percent Sorted	
Stand- ard Haul Factor	20000000000000000000000000000000000000
Vol. Water Strained	\$2000000000000000000000000000000000000
Tow Depth (m)	1139 11329 11329 11329 11329 11329 11329 11320 1
Time (PST)	11226 11416 11416 11642 11642 11642 11643 11643 11643 11756 11756 11756 11756 11756 11756 11756 11756 11756 11756 11756 11756 11756 11756 11756 11743
Tow Date yr. mo. day	\$559 00 00 00 00 00 00 00 00 00 00 00 00 00
Ship Code	
Long.(W) deg. min.	11111111111111111111111111111111111111
Lat.(N) deg. min.	227 228 288 28.4 28.4 28.4 28.4 28.4 28.4 2
Station	78888888448898888988889888898889888989888998889999
Line	1117.0 1117.0 1118.0 118.0 118.0 118.0 118.0 118.0 118.0 118.0 118.0 118.0 118.

TABLE 1. (cont.)

	Total Eggs	2034 2034 3458 2034 2034 2034 2036 2036 2036 2037 2037 2047 2047 2047 2047 2047 2047 2047 204	
	Total Larvae	109 109 109 108 108 108 108 108 108	
	Percent Sorted	100000000000000000000000000000000000000	
	Stand- ard Haul Factor	2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	
	Vol. Water Strained (cu. m)	00000000000000000000000000000000000000	
5904	Tow Depth	138 808 801 1331 1331 1331 1330 1330 1340 1340 1441 1441	
nise	Time (PST)	22226 02218 22346 22346 11536 11536 00046	
CalCOFI Cruise	Tow Date yr. mo. day	559 04 113 559 04 114 559 04 113 559 04 113 559 04 113 559 04 113 559 04 115 559 04 115 559 04 116 559 04 116 559 04 116 559 04 116 559 04 116 559 04 116 559 04 116	
	Ship Code	5.55.55.55.55.55.55.55.55.55.55.55.55.5	
	Long.(W) deg. min.	1115 55.0 1112 24.0 1112 24.0 1113 09.0 1113 09.0 1114 00.0 1112 09.0 1113 14.5 1111 03.5 1111 03.5 1111 03.5 1111 03.5 1112 08.0 1112 18.5 1113 14.5 1111 12.0 1111 12.0 1112 13.0 1113 14.5 1113 14.5 1113 14.5 1113 14.5 1113 14.5 1113 14.5 1113 14.5 1113 14.5	
	Lat.(N) deg. min.	22 445.0 22 445.0 22 445.5 22 445.5 22 45.5 23 45.0 23 345.5 23 345.5 23 345.5 23 345.5 23 345.5 22 35.0 22 35.0 22 35.0 22 35.0 22 35.0 22 35.0 22 35.0 22 36.0 22 36.0 22 36.0 22 36.0 22 37 47.5 22 37 47.5 22 37 47.5 27 47 5 27 5 27 5 27 5 27 5 27 5 27 5 27 5 2	
	Station	00000000000000000000000000000000000000	
	ine	44444444444444444444444444444444444444	

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Total Eggs	11 2 66 8 60 11 12 13 14 16 16 17 18 18 18 18 18 18 18 18 18 18	
Total Larvae	184 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Percent Sorted	1000 1000 1000 1000 1000 1000 1000 100	
Stand- ard Haul Factor	23.001125.7.7.7.7.7.7.9.9.9.9.9.9.9.9.9.9.9.9.9.	
Vol. Water Strained (cu. m)	00000000000000000000000000000000000000	
Tow Depth	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Time (PST)	0418 00238 00238 00238 00238 00236 00236 00236 00236 00336 00336 00336 00336 00336 00336 00336 00336 00337 0	
Tow Date yr. mo. day	559 05 22 23 23 24 4 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
Ship Code		
Long.(W) deg. min.	1233 022 023 032 033 032 033 033 033 033	
Lat.(N) deg. min.	33 4 4 4 4 4 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	
Station	700000000000000000000000000000000000000	
Line	600 600 600 600 600 600 600 600 600 600	

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Total Eggs	199 199 1138 1138 1277 2777 2777 278 139 130 130 130 130 130 130 130 130
Total Larvae	36 115 110 110 110 111 111 112 113 113 113 113 113 113 113
Percent Sorted	
Stand- ard Haul Factor	844444864447606806777884444861644446688688668868866
Vol. Water Strained	44444444444444444444444444444444444444
Tow Depth (m)	100 100 100 100 100 100 100 100 100 100
Time (PST)	0205 2345 2345 2345 2345 2345 2345 2346 2346 2346 2346 2346 2346 2346 2346
Tow Date yr. mo. day	\$59.05
Ship Code	
Long.(W) deg. min.	1222 57 1222 1222 1222 1222 1222 1222 12
Lat.(N) deg. min.	33333333333333333333333333333333333333
Station	1111 1011 1011 1011 1011 1011 1011 101
Line	777 777 880 880 880 880 880 880

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Total Eggs	65 24 28 17	117	228 54	19 69 237 180	22 159 27 68	25 6 70 126	317 23 14 952	215 27 116 76 49	1894 1199 424 264	300 195 203 465 27
Total Larvae	63 3 47	23 27 28	11 26 76 57	180 37 48	155 155 69 73	16 12 11	247 27 37	23 238 216 129	22 22 21 12	21 25 37 14
Percent Sorted	1000.00	00000	1000.0	100.0	100.0	100.0	1000.0000000000000000000000000000000000	1000.0000000000000000000000000000000000	000000000000000000000000000000000000000	100.00
Stand- ard Haul Factor	2.89 3.19 3.07	3.38 3.10	2.38 2.90 2.91 2.91	2.84 2.83 2.83	2.65 2.93 2.85 2.85	2.98 2.98 3.03	2.71 3.12 3.11 2.36	2.32 2.32 2.36 2.36	2.85 2.84 3.08 4.08	2.82 2.88 3.21 3.01
Vol. Water Strained	339 4454 4694	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 4 4 4 4 209 4 4 4 209 8 8 6 209 8 6 6	491 505 495	524 486 501	4444 4485 7774 773	515 462 465 265	4 502 509 4 486 11	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4497 4494 4471 476
Tow Depth	11 98 1441 1445	1447	11111 1444 1422 13422	140 142 141	1422	140 142 143	140 144 145	11441	1111444 74444 7440	1142 1442 1442 1452
Time (PST)	1312 1741 2151 0036	0341 0641 1041 1326	1521 0005 0426 0831	1541 1811 1611	1001 0631 0336	1356 1356 1626 1916 2201	0501 0116 2216 1513	1826 2106 0006 0351	0636 0911 0451 0736 1026	1536 1821 1411 1326 1056
Tow Date yr. mo. day	05 05 05 05	0000	0000	055	00000	00000	05	00000	59 05 12 59 05 12 59 05 13 59 05 13 59 05 13	05 00 05 00 00 00 00 00 00 00 00 00 00 0
Ship	88888	3888	* # # # # # # # # # # # # # # # # # # #	8 8 8 8 8	8888	88888	88888	\$8888	588888	888888
Long.(W) deg. min.									118 50.0 119 11.5 119 29.0 119 50.0 120 10.0	120 50.5 121 09.0 116 43.5 116 46.7 117 06.0
Lat.(N) deg. min.									31 25.0 31 15.0 31 04.0 30 54.0 30 44.0	
Station	55.0 55.0 65.0	70.0 80.0 85.0	120.0	145.0 28.0 30.0	50.04 50.00 50.00	70.0 70.0 75.0	0.000 0.000 0.000 0.000	25.0 44.0 55.0 0.0 0.0 0.0	75.0 75.0 75.0	885.0 229.0 330.0 35.0
Line	0.0666	00000	00000	00000	00000	,	00.00	97.0 97.0 97.0	0.766 0.766 0.766 0.766	97.0 97.0 100.0 100.0

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Total Eggs	34 35 36 37 37 37 37 37 37 37 37 37 37
Total Larvae	555 616 617 727 733 743 743 743 743 743 743 743 743 74
Percent Sorted	
Stand- ard Haul Factor	EGEGGEGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
Vol. Water Strained	44444444444444444444444444444444444444
Tow Depth	1144 1144 1144 1144 1144 1144 1144 114
Time (PST)	00455 00456 00456 00456 00456 00456 00456 00456 00546 00
Tow Date yr. mo. day	\$59 05 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18
Ship Code	888888888888888888888888888888888888888
Long.(W) deg. min.	1117 25 7 11119 8 7 2 7 1 1 1 1 2 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Lat.(N) deg. min.	31 21 21 21 21 21 21 21 21 21 21 21 21 21
Station	0.000000000000000000000000000000000000
Line	10000000000000000000000000000000000000

Total Eggs	14 96 1224 1224 1224 1224 1224 1224 1224 122
Total Larvae	100 100 100 100 100 100 100 100 100 100
Percent Sorted	
Stand- ard Haul Factor	EGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
Vol. Water Strained	44444600000000000000000000000000000000
Tow Depth	11134 11134 11134 11134 11134 11134 11134 11134 11134 1134 1134 1134 1134 1134 1134 1134 1134 1134 1134 1134
Time (PST)	1845 1945
Tow Date yr. mo. day	\$59 05 23 4 4 5 5 5 6 6 0 6 17 4 5 5 6 9 0 5 17 4 5 5 6 9 0 5 2 1
Ship	888888888888888888888888888888888888888
Long.(W) deg. min.	11188 1199 1199 1199 1199 1199 1199 119
Lat.(N) deg. min.	28 35.0 27 27.1 27.2 28.1 36.0 28 28.0 36.0 36.0 36.0 36.0 36.0 36.0 36.0 36
Station	77 0.0000000000000000000000000000000000
Line	11100.00 11110.00 1110.00 110.00 110.00 110.00 110.00 110.00 110.00 110.00 110.00 110.

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Total Eggs	609 315	29 224	469	243	37	35	159	63	58 259	73	195	148	1624 868	86	71	13	53	107	97	118	29	331 59	
Total Larvae	311	800	169	299	130	233	349 65	51	36	193	28	46	1.4 6.0	135	172	10	20	18	36	mc	. 6	325	
Percent Sorted	100.0	100.0	100.0	1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Stand- ard Haul Factor	2.95	2.96	2.97	2.81	3.54	2.59	2.84	2.54	2.57	2.77	2.56	2.63	2.59	2.74	2.68	2.66	2.76	1.93	2.34	2.69	2.76	3.37	
Vol. Water Strained (cu. m)	474	481	478	485	428	529	492 513	518	521 508	366	527	516	523	502	504	504	506	299	244	510	494	522	
Tow Depth	158	142	142	136	151	137	140	131	134	138	135	136	135	138	136	134	140	116	57	137	136	129	
Time (PST)	2345 2115	1356	2130	0356	1030	2341	2045	1430	$\frac{1111}{0756}$	0506	0411	9080	1116	1715	2015	1530	1226	0636	0228	0626	1321	1620	
Tow Date yr. mo. day	59 05 15 59 05 15 59 05 14	050		050	020	02	0.5	02	02	02	050	0.5	200	02	05	0.0	02	0.0	05	200	0.50	05	
Ship	FF	FF	I I I	E E	LL	PT	E E	ΡŢ	PT	PT	ZZ	PT	I I	PT	PT	P.T.	PT	T d	ΡŢ	PT	PT	P P	
Long.(W) deg. min.	118 10.8																						
Lat.(N) deg. min.	26 26.9 26 24.0																						
Station	85.0 90.0	42.0	50.0	60.0	70.0	40.0	50.0	55.0	65.0	70.0	35.0	40.0	45.0	55.0	60.09	30.0	35.0	45.0	23.0	30.0	40.0	45.0 50.0	
ine (20.0	23.00	23.0	23.0	23.0	27.0	27.0	27.0	27.0	27.0	30.0	30.0	30.0	30.0	30.0	33.0	33.0	33.0	37.0	37.0	37.0	37.0	

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Total Eggs	10 14 33 11 168 8465 8465 8465 8465 11 11 11 11 11 11 11 11 11 11 11 11 11	251
Total Larvae	4 255 4 885	181
Percent Sorted		100.0
Stand- ard Haul Factor	1.551	2.01
Vol. Water Strained (cu. m)	44440000044440000000000000000000000000	531
Tow Depth	120 121 122 123 133 133 133 133 133 133 133	107
Time (PST)	11308 11308	0210
Tow Date yr. mo. day	\$59 06 110 100 100 100 100 100 100 100 100	9 06 1
Ship Code		99
Long.(W) deg. min.	120 121 122 122 123 123 123 123 123 123 123	23.
Lat.(N) deg. min.	23 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	10.
Station	0.000 0.000	37.0
ine 8	777.0 777.0 777.0 777.0 777.0 777.0 777.0 777.0 777.0 777.0 777.0 777.0 8880000 8880000000000	90.06

CalCOFI Cruise 5906

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332 10.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	
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	50.0 32 14.7 119 16.5 HO 59 06 18 1246 128 100.0 234 65.0 32 16.7 110 16.5 HO 59 06 18 119 16.10 100.0 66.6 70.0 31 2.6 100 10.0 100 10.0 100 10.0 100.0 100.0 70.0 31 2.6 100 10.0 100 10.0 100 10.0 100.0 100.0 28.0 32 2.6 100 10.0 100 10.0 100.0 100.0 100.0 35.0 32 2.0 117 31.8 HO 59 06 16 100.0 22.8 100.0 100.0 45.0 32 2.0 117 31.8 HO 59 06 16 100.0 22.8 100.0 100.0 55.0 32 2.0 118 33.0 HO 59 06 16 100.0

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Total Eggs	427 427 4277 4277 4277 68 110 110 110 110 110 110 110 110 110 11	16
Total Larvae	1122 5210 1122 528 11	11
Percent Sorted		100.0
Stand- ard Haul Factor	0.0001101010101010101010101010101010101	0/07
Vol. Water Strained (cu. m)	######################################	6/4
Tow Depth (m)	11133 11133	121
Time (PST)	0700 0710 0710 0710 0710 0710 0710 0710	00/0
Ship Tow Date Code yr. mo. day	BBB BB	90 6c
Long.(W) Sh deg. min. Co		40.0
Lat.(N) deg. min.	222 222 222 222 222 222 222 222 222 22	13,
Station	C888 Q W W 4 4 R R R R R R R C K R C	35.0
Line		113.0

Total Eggs	112 112 114 125 148 1486 173 1486 1148 1148 1148 1148 1148 1148 1148
Total Larvae	4449 659 669 669 669 669 669 669 66
Percent Sorted	000000000000000000000000000000000000000
Stand- ard Haul Factor	22222222222222222222222222222222222222
Vol. Water Strained (cu. m)	0.000000000000000000000000000000000000
Tow Depth S	1113334 111334 11134 11134 11134 11135 111
Time (PST)	04441 191111601 191111601 191111601 191111601 191111601 19111601 1
Tow Date yr. mo. day	\$250.000
Ship Code	688688888888888888888888888888888888888
Long.(W) deg. min.	115 58 116 58.0 117 0 21.5 117 0 21.5 117 1 25.5 118 317.0 118 517.0 118 517
Lat.(N) deg. min.	29 02.0 28 50.0 28 50.0 28 50.0 28 50.0 27 50.0 27 45.0 27 45.0 27 45.0 27 45.0 27 45.0 27 50.0 28 34.0 27 30.0 27
Station	448 0.0000000000000000000000000000000000
Line	11133.00 11133.00 11133.00 11133.00 11133.00 11133.00 11133.00 11133.00 11133.00 11133.00 11133.00 11133.00

Total Eggs	126 126 126 1884 1984 1188 1188 1188 100 100 100 100 100 100
Total Larvae	218 131 131 131 131 131 132 133 134 135 137 137 137 137 137 137 137 137 137 137
Percent Sorted	
Stand- ard Haul Factor	7448976864884991879947887777777777777777777777777
Vol. Water Strained (cu. m)	0.0004440404040404040404040404040404040
Tow Depth (m)	1134 1723 17423 17423 1723 1723 1723 1734 1734 1734 1734 1734 1734 1734 173
Time (PST)	00656 100941 1148 11148 11148 100526 00226 2031 11701
Tow Date yr. mo. day	\$559 06 06 06 06 06 06 06 06 06 06 06 06 06
Ship	888888888888888888888888888888888888888
Long.(W) deg. min.	1115 50 1116 6 100 0 1117 4 20 0 1118 5 20 0 1118 7 2
Lat.(N) deg. min.	26 46.5 26 46.5 26 26.0 26 26.0 26 26.0 26 26.0 26 26.0 26 27.0 26 28.0 27 28.0 28 28 28.0 28 28 28.0 28 28 28 28 28 28 28 28 28 28 28 28 28 2
Station	00000000000000000000000000000000000000
Line	1233 12233 12233 12233 12233 12233 12233 12233 1233 12333 12

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	Tot	
	Total Larvae	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Percent Sorted	
	Stand- ard Haul Factor	22222222222222222222222222222222222222
	Vol. Water Strained (cu. m)	$ \begin{array}{c} \mathbf{q} \mathbf{q} \mathbf{q} \mathbf{q} \mathbf{q} \mathbf{q} \mathbf{q} q$
	Tow Depth	1338 1338 1338 1338 1340 1340 1340 1340 1340 1340 1340 1340
	Time (PST)	1636 1131 1131 1131 1131 1131 1131 1131
	Tow Date 'yr. mo. day	559 07 26 559 07 26 559 07 26 559 07 22 559 07 22 550 07 22 570 07 22
	Ship	888888888888888888888888888888888888888
	Long.(W) deg. min.	126 6 19 3 122 6 6 49 9 3 122 6 6 19 9 122 6 19 9 122 6 19 9 122 6 19 9 122 6 123 123 123 123 123 123 123 123 123 123
	Lat.(N) deg. min.	338 4 2. 6 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.
	Station	880 980 980 980 980 980 980 980 980 980
	Line	500 500 600 600 600 600 600 600

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Total Eggs	4.4411 1000	
Total Larvae	100 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Percent Sorted		
Stand- ard Haul Factor	0.000000000000000000000000000000000000	
Vol. Water Strained (cu. m)	•	
Tow Depth	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Time (PST)		
Tow Date yr. mo. day	559 07 113 559 07 113 559 07 113 559 07 113 559 07 113 559 07 114 4 4 559 07 113 559 07 113 559 07 113 559 07 114 4 4 559 07 114 4 4 559 07 114 4 4 559 07 114 4 4 559 07 113 559 07 114 4 4 559 07 113 559 07 114 4 4 559 07 113 559 07 113 559 07 113 559 07 113 559 07 114 4 4 559 07 113 5	
Ship		
Long.(W) deg. min.	123	
Lat.(N) deg. min.	33.2 2.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	
Station	88802000000000000000000000000000000000	
Line		

CalCOFI Cruise 5907

Total Eggs	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Total Larvae	27
Percent Sorted	
Stand- ard Haul Factor	24494949884900440086888864461177789691886077077884
Vol. Water Strained (cu. m)	0.000000000000000000000000000000000000
Tow Depth (m)	11338 1338 1338 1343 1343 1343 1343 1343
Time (PST)	0421 00046 00046 00046 00031 00031 00031 00016
Tow Date yr. mo. day	\$59 07 224 \$59 07 244 \$59 07 244 \$59 07 244 \$59 07 223 \$59 07 223 \$59 07 223 \$59 07 223 \$59 07 222 \$50 07 222 \$50 07
Ship Code	
Long.(W) đeg. min.	1118 22. 1118 52.5. 1119 3.5.5. 1120 4.0. 1121 23.0. 1121 20.0. 1221 20.0. 1231 20.
Lat.(N) deg. min.	33 20.5 36 20.5 37
Station	0.000000000000000000000000000000000000
Line	99 99 99 99 99 99 99 99 99 99 99 99 99

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Total Eggs	174 867 1582 111 1882 111 1892 111 1128 1138 114 1153 114 1153 1153 114 1153 1140 1153 1153 1160 1175 11
Total Larvae	106 76 76 76 76 76 125 171 187 187 198 103 103 103 104 104 103 104 104 104 104 104 104 104 104 104 104
Percent Sorted	
Stand- ard Haul Factor	######################################
Vol. Water Strained (cu. m)	44444444444444444444444444444444444444
Tow Depth	1173 88 88 88 89 89 89 89 89 89 89 89 89 89
Time (PST)	11251 11806 11806 00306 00306 00306 00859 00551
Tow Date yr. mo. day	559 07 117 117 117 117 117 117 117 117 117
Ship Code	
Long.(W) deg. min.	1118 49 1120 425.0 1120 042.0 1120 042.0 1120 042.0 1120 042.0 1116 25.0 1117 266.0 1118 25.5 1119 046.5 1119 046.5 1119 046.5 1119 049.5 1110 049.5
Lat.(N) deg. min.	229 45.5 229 45.5 229 45.5 229 45.5 229 45.5 229 25.0 229 25.0 229 26.0 229 27.0 229 27.0 220 27
Station	0.000000000000000000000000000000000000
Line	000000000000000000000000000000000000000

CalCOFI Cruise 5907

Total Eggs	1100 1100 1100 1100 1100 1100 1100 110	
Total Larvae	1223 1223 1223 1224 1224 1224 133 133 134 134 134 135 136 137 137 137 137 137 137 137 137 137 137	
Percent Sorted		
Stand- ard Haul Factor	00000000000000000000000000000000000000	
Vol. Water Strained	44462444444444444444444444444444444444	
Tow Depth	0.000000000000000000000000000000000000	
Time (PST)	00000000000000000000000000000000000000	
Tow Date yr. mo. day	559 07 23 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
Ship		
Long.(W) deg. min.	11155 39 11166 5 3 3 88 5 5 11111 1	
Lat.(N) deg. min.	229 12.0 228 42.0 228 45.0 228 45.0 228 45.0 227 44.0 227 44.0 227 43.0 227 43.0 227 43.0 227 43.0 227 43.0 227 43.0 227 43.0 227 43.0 227 43.0 227 43.0 227 22.5 227 22.5 227 22.5 227 22.5 227 22.5 227 22.5 227 22.5 227 22.5 227 22.5 227 22.5 227 22.5 227 22.5 227 22.5 227 22.5 228 13.0 227 22.5 228 13.0 227 22.5 228 13.0 227 22.5 228 13.0 227 22.5 228 13.0 227 22.5 228 13.0 227 22.5 228 13.0 227 22.5 228 13.0 227 22.5 228 13.0 227 22.5 228 23.0 227 24.5 228 23.0	
Station	88888888888888888888888888888888888888	
Line	11133.00 111200.00 112200.00 11233.00 11233.00	

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	Total Eggs	1
	Total Larvae	4212122 4212122 4222238 4222238 4222238 4222238 4222238 422223 42223 4223 423 4
	Percent Sorted	
Stand-	ard Baul Factor	248-1804-09889-098-1988-1988-1988-1988-1988-1988
Vol.	water Strained (cu. m)	550 550 550 550 550 550 550 550
	Tow Depth (m)	1334 4 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Time (PST)	1456 1146 1146 1146 1171 1171 1172 1173 1174 1174 1174 1174 1174 1174 1174
	p Tow Date e yr. mo. day	\$59 07 117 \$59 07 117 \$59 07 117 \$59 07 117 \$59 07 117 \$59 07 117 \$59 07 118 \$50 07 118 \$50 07 118 \$50 07 118 \$50 07 118 \$50 07 118 \$50 07 118 \$50 07 118 \$50 07 118 \$50 07 118 \$50 07 118 \$50 07
	Ship Code	
	Long.(W) deg. min.	1115 43 1116 428 1116 428 1117 428 1118 428 1119 428 1119 428 1111 428 1111 428 1111 428 1111 428 1111 438 1111
	Lat.(N) deg. min.	2222256 52 52 52 52 52 52 52 52 52 52 52 52 52
	Station	0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.
	Line	1233.0 1233.0 1233.0 1233.0 1227.0 1227.0 1227.0 1227.0 1227.0 1230.0 12

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Total Eggs	4 10 0 10 10 10 10 10 10 10 10 10 10 10 1
Total Larvae	1
Percent Sorted	
Stand- ard Haul Factor	0.000000000000000000000000000000000000
Vol. Water Strained (cu. m)	q q q q q q q q q q
Tow Depth (m)	11124
Time (PST)	0356 00156 00166 00171
Tow Date yr. mo. day	\$59 08 15 \$59 08 15 \$59 08 15 \$59 08 15 \$59 08 15 \$59 08 15 \$59 08 15 \$59 08 15 \$59 08 16 \$59 08 17 \$59 08 17 \$59 08 18 \$59 08 18 \$50 08
Ship Code	888888888888888888888888888888888888888
Long.(W) deg. min.	120 52 121 16.8 122 1 35 122 1 35 122 1 35 123 1 35 123 1 35 124 1 35 125 1 35 126 1 35 127 1 35 128 1 35 129 1 35 120 1 35 121 1 35 121 1 35 122 1 35 123 1 35 124 1 35 125 1
Lat.(N) deg. min.	33 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Station	0.000000000000000000000000000000000000
Line	777 777.00 777.00 880.00 880.00 883.00 800.00 800.00 800.00 800.00 800.00 800.00 800.00 800.00 800.00 800.00 800.00 800.00 800.00 800.00 800.00 800.00 800.00 800.0

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	Total	1101 04 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	
	Total Larvae	23 63 64 7 7 7 10 11 10 11 13 13 13 13 13 14 14 16 18 18 18 18 18 18 18 18 18 18	
	Percent Sorted		
	Stand- ard Haul Factor	32.7.2.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	
	Vol. Water Strained (cu. m)	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
2908	Tow Depth	1134 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Cruise	Time (PST)	11123111111111111111111111111111111111	
CalCOFI Cr	Tow Date yr. mo. day	5559 008 22 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
	Ship Code	888888888888888888888888888888888888888	
	Long.(W) deg. min.	121 177 177 188 177 188 188 188 188 188 18	
	Lat.(N) deg. min.	33 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	Station	0.000000000000000000000000000000000000	
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Total Eggs	1112 122 124 144 145 168 1113 1113 1113 1113 1113 1113 1113	
Total Larvae	23 23 404 404 404 404 404 404 404 404 404 40	
Percent Sorted		
Stand- ard Haul Factor	0.000000000000000000000000000000000000	
Vol. Water Strained	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
Tow Depth	1133 1133 1133 1133 1133 1134 1134 1134	
Time (PST)	00000000000000000000000000000000000000	
Tow Date yr. mo. day	559 088 220 08 2	
Ship Code		
Long.(W) deq. min.	1117 7 1117 7 1118 8 1811 1118 8 1833.00 1118 8 1833.00 1119 9 18 18 18 18 18 18 18 18 18 18 18 18 18	
Lat.(N) deq. min.	229 52.0 229 22.0 229 22.0 220 220 22.0 220 220 22.0 220 220 220 220 220 220 220 220 220 220	
Station	0.000000000000000000000000000000000000	
Line	10000000000000000000000000000000000000	

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Total Eggs	88 146 146 146 146 146 147 110 1110 1110 1110 1110 1110 1110 1
Total Larvae	626 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Percent Sorted	
Stand- ard Haul Factor	######################################
Vol. Water Strained (cu. m)	0.000000000000000000000000000000000000
Tow Depth (m)	144 144 144 144 144 144 144 144 144 144
Time (PST)	118808 118808 119225 120225 12
Tow Date '	559 9 0 8 115 5 5 9 0 8 115 5 5 9 0 8 115 5 5 9 0 0 8 115 5 5 9 9 0 8 115 5 9 9 0 8 115 5 9 9 0 8 115 5 9 9 0 8 115 5 9 9 0 8 115 5 9 9 0 8 115 5 9 9 0 8 115 5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Ship	
Long.(W) deg. min.	11111111111111111111111111111111111111
Lat.(N) deg. min.	22 22 28 28 38 38 38 38 38 38 38 38 38 38 38 38 38
Station	0.000000000000000000000000000000000000
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Total Eggs	924 1488 4528 6528 6528 6528 6528 6528 6528 6528 6	133
Total Larvae	296 2461 3460 3460 3460 3460 3460 3460 3460 3460	171 58
Percent Sorted		100.0
Stand- ard Haul Factor	0.000 0.000	1.26
Vol. Water Strained	00000000000000000000000000000000000000	794 588
Tow Depth (m)	72 74 74 76 76 76 77 77 77 77 77 77 77 77 77 77	100
Time (PST)	00000000000000000000000000000000000000	2240 0300
Tow Date yr. mo. day	\$559 08 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	80
Ship	888888888888888888888888888888888888888	HS
Long.(W) deg. min.	1111	
Lat.(N) deg. min.	222 5 5 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	n m m
Station	40000000000000000000000000000000000000	50.0
Line	11300.00 113300.00 113300.00 113300.00 1133333.00 1133333.00 113333.00 113333.00 113333.00 113333.00 113333.00 113333.00 113333.00 11333.00 113333.00 113333.00 11333.00 11333.00 11333.00 11333.00 11333	147.0

	Total Eggs	111	1185	303	134	145	144	1036	562	662	662	117	386
	Total Larvae	22	162	140	103	39	53	247	169	200	36	89	89
	Percent Sorted	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	Stand- ard Haul Factor	1.46	1.32	1.85	1.50	1.28	1.57	1.59	1,15	1.85	2.03	1.70	1.88
	Vol. Water Strained	677	707	589	672	714	642	269	778	595	564	610	582
8069	Tow Depth	99	93	109	101	92	101	111	90	110	114	103	109
Cruise	Time (PST)	0646	0055	1920	1645	1105	0638	0437	0100	2044	1705	1450	0702
CalCOFI Cr	Tow Date yr. mo. day	59 08 27	08	80	80	08	80	80	80	08	80	80	80
	Ship Code	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS	HS
	Long.(W) deg. min.	113 18.7											
	Lat.(N) deg. min.	22 54.2			_		-	-		. ,	_		
	Station	55.0	19.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	0.09	16.0	25.0
	Line	147.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	153.0	153.0

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Total Eggs	2 1 1 1 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3
Total Larvae	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Percent Sorted	
Stand- ard Haul Factor	00000000000000000000000000000000000000
Vol. Water Strained (cu. m)	5514 5621
Tow Depth	44448844448844848484848484848484848484
Time	23 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Tow Date yr. mo. day	\$250 000 000 000 000 000 000 000 000 000
Ship Code	888888888888888888888888888888888888888
Long.(W) deg. min.	1117 46 1118 233.0 1119 33.0 1119 33.0 1119 33.0 1120 410.0 122 30.0 122 30.0 123 139.0 123 139.0 123 139.0 123 139.0 123 139.0 123 139.0 123 139.0 123 139.0 123 139.0 123 139.0 124 125.0 125 127 127 128 129 129 129 129 129 129 129 129 129 129
Lat.(N) deg. min.	333 28 333 28 332 28 332 28 332 28 332 28 332 28 332 28 333 28 333 28 333 28 334 52 35 35 36 36 37 38 38 38 38 38 38 38 38 38 38 38 38 38
Station	28.0 37.0 37.0 37.0 55.0 55.0 55.0 55.0 55.0 55.0 55.0 5
Line	0.000000000000000000000000000000000000

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	Potal Eggs	13	A 2	2 2	132	99	318	27	217	232	962	27	350	190	359	875	16	23	170	9/	59	46	33	17	17	903	28	426	492	70
	Total Larvae	33	A C	62	9 6	80	205	15	52	66	140	7	52	171	101	142	39	10	23	29	52	44	18	34	12	268	19	11	449	/9
	Percent Sorted	100.0	0.001	100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Stand-	Haul Factor	2.84	200	2 78	2.62	2.99	2.90	2.20	2.56	2.91	1.36	2.87	1.78	2.94	2.58	2.57	2.91	3.28	2.71	2.57	2.54	2.85	3.06	2.87	2.91	2.85	2.57	2.80	2.18	7.31
Water	Strained (cu. m)	489	545	256	314	334	343	174	262	242	143	474	140	66	109	218	487	449	209	521	537	207	473	489	479	251	216	445	275	463
30	Depth (m)	139	136	בב	82	100	100	38	29	70	19	136	25	29	28	99	142	147	57	134	136	59	145	141	139	72	133	125	9	13/
	Time (PST)	2035	0150	1032	1657	1312	1447	2154	0058	0638	0859	1126	2259	0459	0254	2028	1741	1611	0128	0400	0624	1808	1551	1321	1036	0110	2240	1551	0528	1180
	Tow Date yr. mo. day	59 09 23	_	_	_	_	_	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	_	60	_
	Ship Code	BD	d a	a c	B B	BD																								
	Long.(W) deg. min.	115 16.0																												
	Lat.(N) deg. min.	28 38.0																												
	Station	35.0	20.0	25.0	30.0	35.0	33.0	25.0	30.0	35.0	40.0	45.0	26.0	34.0	30.0	37.0	42.0	45.0	34.0	40.0	45.0	30.0	35.0	40.0	45.0	25.0	30.0	36.0	23.0	30.0
	Line	117.0	118.0	118.5	118.5	118.5	119.0	120.0	120.0	120.0	120.0	120.0	120.7	121.2	121.3	123.0	123.0	123.0	127.0	127.0	127.0	130.0	130.0	130.0	130.0	133.0	133.0	134.0	137.0	13/.0

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Total Eggs	2 2 2 3 4 4 4 5 5 6 6 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Total Larvae	100 100 100 100 100 100 100 100 100 100	
Percent Sorted		
Stand- ard Haul Factor	249419869904471811929089887136EE89948928E440020	
Vol. Water Strained	00000000000000000000000000000000000000	
Tow Depth (m)	107 108 108 108 108 108 108 108 108 108 108	
Time (PST)	11221 11023 11035 1116 11701 11701 11701 11701 11806 1	
Tow Date yr. mo. day	559 10 26 559 10 26 559 10 26 559 10 26 559 10 26 559 10 27 559 10 17 559 10 17 559 10 18 559 10 18	
Ship	**************************************	
Long.(W) deg. min.	1224 347.0 1224 347.0	
Lat.(N) deg. min.	44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Station	7.5.2	
Line	73.00	

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Total Eggs	W V L 40	0084	10040	10 4 E Q	, so - e	740101	138821101	0 1 1 7 7 4 4 4 4 1 1 1 1 1 1 8
Total Larvae	_w40w+	4CH9	v 4.∞ w rv	85 H H R	133	7		14005566222
Percent Sorted	100.0	00000	0.0000000000000000000000000000000000000	1000.0	100.001	1000.0	1000.0000000000000000000000000000000000	100.0 100.0 100.0 100.0 100.0 100.0
Stand- ard Haul Factor	22.53 2.53 2.53	22.03	2.96 2.96 2.96 2.69 2.85	3.74 2.76 2.59 2.51	1.95 2.40 2.40	1.50 2.75 2.38 2.35	23.22.23 2.64.86 2.68.86 2.68.86	1.82 2.76 2.97 2.97 3.56 2.75 2.75
Vol. Water Strained	504 510 529	504 502 703	4 4 4 4 4 4 4 8 8 8 8 8 6 6	404 509 331	485 430 559	630 487 478 620 510	5 4 4 8 8 7 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	44488 4448 4448 488 69
Tow Depth	125 125 131 124	132	131 131 133	151 134 132 138	144 47 109 123	95 138 120 120	120 120 100 108 135	107 134 141 140 155 135 129 137
Time (PST)	0306 2236 1746 1256	1446 1446 1751 2246	0321 0806 0806 0541 0236	2106 1701 1201 0853	0411 1206 1431 1721	2211 0236 0731 2206 1936	1408 1201 0900 0426 2338 1816 2306	0106 0536 0936 1207 1506 1826 0146 0716
Tow Date yr. mo. day	010000000000000000000000000000000000000	0010	00000	00000	00000	000000	0000000	559 10 09 559 10 09 559 10 09 559 10 09 559 10 10 559 10 10 559 10 10
Ship	SSB	88888	S S S S S S	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 8 8 8 8 8 8 8 8 8 8	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	S S S S S S S S S S S S S S S S S S S	SB S
Long.(W) deg. min.								118 04.2 118 23.5 118 23.5 119 13.6 120 00.0 121 25.0 117 21.5
Lat.(N) deg. min.								33 20.5 33 10.6 32 10.6 32 44.3 32 33.1 32 23.7 31 39.8 31 16.6 35.0
Station	60.0 70.0 80.0 90.0	20000	52.0 55.0 60.0	70.0 80.0 47.0	55.0 55.0 60.0 60.0	70.0 80.0 90.0 40.0	20000000000000000000000000000000000000	28.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0
Line	73.0	77.0	77.0 80.0 80.0	880.00 880.00 880.00	00000	883.0 87.0	87.0 87.0 87.0 87.0 87.0	0.0000000000000000000000000000000000000

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Total Eggs	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
Total Larvae	25 442 10 10 10 10 10 10 10 10 10 10	
Percent Sorted		
Stand- ard Haul Factor	00000000000000000000000000000000000000	
Vol. Water Strained (cu. m)	40400044441444644444444444446464644444444	
Tow Depth	13.4 13.4 13.4 13.4 13.4 13.4 13.4 13.4	
Time (PST)	23 23 24 25 25 25 25 25 26 26 26 26 26 26 26 27 27 27 27 27 27 27 27 27 27 27 27 27	
Tow Date yr. mo. day	\$59 10 0 15 \$59 10 10 15 \$59 10 0 15 \$59 10 0 10 10 10 10 10 10 10 10 10 10 10 1	
Ship Code	888888888888888888888888888888888888888	
Long.(W) deg. min.	1117 31 1118 312.0 1118 312.0 1118 312.0 1120 312.0 1120 312.0 1130 312.0 1140 056.0 1170 056.0 1170 056.0 1170 056.0 1170 056.0 1180 056.	
Lat.(N) deg. min.	332 55.5 332 55.0 332 55.0 332 55.0 333 55.0 333 55.0 334 55.0 335 55.0 337 55.0 338 55.0 338 55.0 339 55.0 339 55.0 339 55.0 330 55.0 350 55	
Station	0.000000000000000000000000000000000000	
Line	993.0 993.0 993.0 993.0 993.0 993.0 997.0 907.0 907.0 907.0 907.0 907.0 907.0 907.0 907.0 907.0 907.0	

	Total Eggs	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Total Larvae	30. 10. 10. 10. 10. 10. 10. 10. 10. 10. 1
	Percent Sorted	
	Stand- ard Haul Factor	2E22E222222222222222222222222222222222
	Vol. Water Strained	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
5910	Tow Depth	1146 11399 11466 11466 11466 11466 11473 1
	Time (PST)	00146 00456 00456 00456 01753 01753 01753 01751
CalCOFI Cruise	Tow Date yr. mo. day	559 10 177 177 178 188 189 19 19 19 19 19 19 19 19 19 19 19 19 19
	Ship Code	888888888888888888888888888888888888888
	Long.(W) deg. min.	1117 03 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Lat.(N) deg. min.	229 220 229 220 220 220 220 220 220 220
•	Station	40078808844400008808844400088088844400000000
	Line	10000000000000000000000000000000000000

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Total Eggs	2010 2010 2010 2010 2010 2010 2010 2010
Total Larvae	100 100 100 100 110 111 111 112 125 125 126 127 128 130 110 111 112 128 130 1130 1130 1130 1130 1130 1130 1130
Percent Sorted	000000000000000000000000000000000000000
Stand- ard Haul Factor	22222222222222222222222222222222222222
Vol. Water Strained	0.000 0.000
Tow Depth	137 140 141 142 142 147 147 147 143 143 143 144 144 144 144 144 144 144
Time (PST)	0716 0733 0733 0733 0742 075 075 075 075 075 075 075 075 075 075
Tow Date yr. mo. day	559 10 24 559 10 24 559 10 24 559 10 25 559 10 15 559 10 15 550 10 15
Ship Code	
Long.(W) deg. min.	1116 133 0 0 1111 2 3 3 3 5 5 1 1 1 1 1 2 3 3 3 5 5 1 1 1 1 2 3 3 5 5 1 1 1 1 2 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Lat.(N) deg. min.	27 25.0 26 31.0 26 31.0 27 10.0 27 10.0 27 12.0 27 12.0 27 12.0 27 12.0 27 12.0 27 12.0 28 38.5 28 47.8 28 55.0 28 6 23.0 28 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Station	0.000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.
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Total Eggs	11 15 15 16 16 17 18 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	æ 55
Total Larvae	24	ოო
Percent Sorted		100.0
Stand- ard Haul Factor	22222222222222222222222222222222222222	2.92
Vol. Water Strained (cu. m)	0.000	461 496
Tow Depth	1122 11233 11233 11336 11336 1136 1136 1	135
Time (PST)	00000000000000000000000000000000000000	2236 1611
Tow Date Yr. mo. day	\$559 111 22 22 22 11 22 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	59 11 23 59 11 23
Ship		PT
Long.(W) deg. min.	100 100 100 100 100 100 100 100 100 100	
Lat.(N) deg. min.	33332333333333333333333333333333333333	
Station	0.000000444400004440000000000000000000	70.0
Line	77777	93.0

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Total Eggs	32 32 32 32 34 5 5 6 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7
Total Larvae	228 235 235 235 200 200 200 200 200 200 200 200 200 20
Percent Sorted	
Stand- ard Haul Factor	22222222222222222222222222222222222222
Vol. Water Strained (cu. m)	44444444444444444444444444444444444444
Tow Depth (m)	14422 114424 114444 114444 11444 11444 11440 11400 1440 1
Time (PST)	11451 11556 11656 11656 11656 11656 11656 11656 1174 1174 1174 1174 1174 1174 1174 117
Tow Date yr. mo. day	\$59 12 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Ship Code	888888888888888888888888888888888888888
Long.(W) deg. min.	121 04.7 122 13.5 122 13.5 122 13.6 122 13.6 122 14.3 123 14.3 124 14.3 125 14.3 126 14.3 127 14.3 128 15.3 128 15.3 129 16.6 121 13.3 121 13.3 121 13.3 121 13.3 122 13.3 123 13.3 124 13.3 125 13.3 127 13.3 128 13.3 129 13.3 121 13.3 121 13.3 121 13.3 122 13.3 123 13.3 124 13.3 125 13.3 127 13.3 128 13.3 129 13.3 120 13.3 121 13.3
Lat.(N) deg. min.	33333333333333333333333333333333333333
Station	553 5655 5655 5655 6
Line	777.0 777.0 777.0 777.0 777.0 777.0 8888833.0 9900.0 9900.0 9900.0 9900.0 9900.0 9900.0 9900.0 9900.0 9900.0 9900.0 9900.0 9900.0 9900.0

TABLE 2. Pooled occurrences of fish larvae taken during CalCOFI cruises in 1959.

Rank	Taxon	Occurrences
1	Vinciquerria lucetia	1209
2	Triphoturus mexicanus	1069
3	Engraulis mordax	888
4	Sebastes spp.	602
5	Cyclothone spp.	514
6	Diogenichthys laternatus	442
7	Lampanyctus ritteri	429
8	Protomyctophum crockeri	424
9	Ceratoscopelus townsendi	373
10	Disintegrated fish larva	361
11	Merluccius productus	340
12	Stenobrachius leucopsarus	327
13	Leuroglossus stilbius	324
14	Trachurus symmetricus	286
15	Bathylagus wesethi	275
16	Unidentified fish larva	272
17	Lampanyctus spp.	260
18	Myctophidae	245
19	Melamphaes spp.	209
20	Symbolophorus californiensis	191
21	Gonichthys tenuiculus	181
21	Stomias atriventer	181
23	Sardinops sagax	172
24	Paralepididae	165
25	Hygophum atratum	138
26	Citharichthys stigmaeus	134
27	Labridae	122
28	Citharichthys spp.	121
29	Lampadena urophaos	120
30	Citharichthys xanthostigma	118
31	Diogenichthys atlanticus	116
32	Tarletonbeania crenularis	113
33	Gobiidae	108
34	Citharichthys fragilis	106
34	Bathylagus ochotensis	106
36	Myctophum nitidulum	105
37	Diaphus spp.	103
38	Sternoptychidae	94
39	Scopelarchidae	93
40	Hygophum spp.	91 79
41 42	Diogenichthys spp.	79 76
43	Notoscopelus resplendens	76 75
43	<i>Symphurus</i> spp. Chiasmodontidae	75 75
45	Icichthys lockingtoni	7.5 7.4
46	Chauliodus macouni	72
40	Sciaenidae	71
48	Serranidae	66
40	Serraniuae	00

TABLE 2. (cont.)

Rank	Taxon	Occurrences
48	Synodus spp.	66
50	Scomber japonicus	65
51	Trichiuridae	61
52	Scopelogadus bispinosus	60
53	Hypsoblennius spp.	59
54	Ceratioidei	50
55	Citharichthys sordidus	48
55	Lyopsetta exilis	48
57	Lampanyctus regalis	46
58	Ophidion scrippsae	44
59	Ophidiiformes	43
59	Ichthyococcus spp.	43
61	Idiacanthus antrostomus	38
62	Paralichthys californicus	37
63	Diplophos taenia	36
63	Seriola lalandi	36
65	Anguilliformes	33
66	Hippoglossina stomata	32
67	Etrumeus acuminatus	31
68	Argentina sialis	30
69	Parophrys vetulus	29
70	Scorpaena spp.	28
70	Prionotus spp.	28
72	Cottidae	27
72	Coryphaena hippurus	27
72	Sphyraena argentea	27
72	Nansenia crassa	27
76	Tetragonurus cuvieri	26
76	Carangidae	26
78	Microstoma microstoma	25
79	Peprilus simillimus	22
80	Cololabis saira	20
80	Etropus spp.	20
80	Microstomus pacificus	20
80	Auxis spp.	20
84	Pomacentridae	18
85	Chilara taylori	17
85	Poromitra spp.	17
87	Hygophum reinhardtii	16
87	Chromis punctipinnis	16
87	Scopelosaurus spp.	16
90	Clinidae	15
91	Nansenia candida	13
91	Bregmaceros spp.	13
91	Bathylagus pacificus	13
91	Stomiiformes	13
95	Trachipteridae	12
96	Aristostomias scintillans	11
96	Haemulidae	11

TABLE 2. (cont.)

Rank	Taxon	Occurrences
98	Brosmophycis marginata	10
98	Caulolatilus princeps	10
98	Sebastolobus spp.	10
101	Mugil spp.	9
101	Loweina rara	9
101	Nomeidae	9
101	Sarda chiliensis	9
101	Brama spp.	9
106	Agonidae	8
106	Glyptocephalus zachirus	8
106	Syacium ovale	8
109	Bathophilus spp.	7
109	Bathylagus spp.	7
109	Pleuronichthys spp.	7
109	Gerreidae	7
109	Pleuronichthys verticalis	7
114	Zaniolepis spp.	6
114	Evermannellidae	6
114	Mullidae	6
114	Exocoetidae	6
118	Apogonidae	5
118	Pleuronectiformes	5
118	Xystreurys liolepis	5
118	Pleuronichthys coenosus	5
122	Myctophum aurolaternatum	4
122	Gempylidae	4
122	Pleuronichthys decurrens	4
122	Scorpaenichthys marmoratus	4
122	Bothus spp.	4
127	Syngnathus spp.	3
127	Euthynnus spp.	3 3
127	Oxylebius pictus	3
127	Macrouridae	3
127	Psettichthys melanostictus	3
127	Scombridae	3
127 133	Notolychnus valdiviae	2
133	Scorpaenidae	2
	Hypsypops rubicundus	2
133 133	Scomberomorus spp.	2
133	Engraulidae	2
133	Pleuronichthys ritteri Tactostoma macropus	2
133	Physiculus spp.	2
133	Girella nigricans	2
133	Electrona rissoi	2
133	Thunnus albacares	2
133	Cyclopteridae	2
133	Icosteus aeniqmaticus	2
146	Citharichthys platophrys	1
	ordinarionings pracopings	-

TABLE 2. (cont.)

Rank	Taxon	Occurrences
146 146 146 146 146	Priacanthidae Opisthonema spp. Lophiidae Uranoscopidae Medialuna californiensis Macroramphosus gracilis	1 1 1 1 1
146 146 146	<i>Bathylagus milleri</i> <i>Seriola</i> spp. Atherinidae	1

TABLE 3. Pooled numbers of fish larvae taken during CalCOFI cruises in 1959. Counts are adjusted for percent of sample sorted and standard haul factor (see text).

Rank	Taxon	Count
1	Engraulis mordax	207333
2	Vinciquerria lucetia	117811
3	Triphoturus mexicanus	33817
4	Merluccius productus	17761
	Sebastes spp.	11427
5 6	Leuroglossus stilbius	7673
7	Stenobrachius leucopsarus	7253
8	Diogenichthys laternatus	6325
9	Sardinops sagax	5368
10	Ceratoscopelus townsendi	4454
11	Trachurus symmetricus	4080
12	Cyclothone spp.	3888
13	Lampanyctus ritteri	2409
14	Bathylagus wesethi	2395
15	Prionotus spp.	2157
16	Disintegrated fish larva	2060
17	Protomyctophum crockeri	2034
18	Myctophidae	1641
19	Citharichthys fragilis	1585
20	Lampanyctus spp.	1476
21	Unidentified fish larva	1425
22	Symbolophorus californiensis	1132
23	Citharichthys xanthostigma	968
24	Citharichthys spp.	917
25	Lampadena urophaos	860
26	Stomias atriventer	835
27	Melamphaes spp.	829
28	Gonichthys tenuiculus	795
29	Tarletonbeania crenularis	782
30	Serranidae	762
31	Sciaenidae	733
32	Diaphus spp.	723
33	Hygophum atratum	696
34	Paralepididae	649
35	Diogenichthys atlanticus	637
36	Labridae	618
37	Synodus spp.	613
38	Citharichthys stigmaeus	611
39	Etrumeus acuminatus	610
40	Diogenichthys spp.	592
41	Bathylagus ochotensis	546
42	Notoscopelus resplendens	526
43	Scomber japonicus	490
44	Hygophum spp.	460
45	Gobiidae	458
46	Symphurus spp.	422
47	Myctophum nitidulum	408

TABLE 3. (cont.)

Rank	Taxon	Count
48	Icichthys lockingtoni	394
49	Auxis spp.	386
50	Scopelarchidae	337
51	Ophidion scrippsae	334 326
52	Sternoptychidae	324
53	Trichiuridae	306
54	Carangidae	276
55 56	Ophidiiformes <i>Hypsoblennius</i> spp.	259
57	Anguilliformes	255
58	Chauliodus macouni	248
58	Paralichthys californicus	248
60	Lyopsetta exilis	243
61	Chiasmodontidae	242
62	Parophrys vetulus	226
63	Scopelogadus bispinosus	209
64	Ceratioidei	192
65	Sphyraena argentea	190
66	Citharichthys sordidus	188
67	Lampanyctus regalis	176
68	Scorpaena spp.	167
69	Seriola lalandi	166
70	Pomacentridae	145
71	Idiacanthus antrostomus	128
72	Cottidae	127
73	Diplophos taenia	126
74	Ichthyococcus spp.	122
75	Tetragonurus cuvieri	114
76	Etropus spp.	109
77	Hippoglossina stomata	103 101
78	Argentina sialis	95
79 80	Microstoma microstoma Clinidae	93
81	Gerreidae	86
82	Peprilus simillimus	83
83	Nansenia crassa	82
84	Coryphaena hippurus	77
84	Haemulidae	77
86	Microstomus pacificus	76
87	Cololabis saira	75
88	Bregmaceros spp.	63
88	Bathylagus pacificus	63
90	Chromis punctipinnis	61
90	Nansenia candida	61
92	Poromitra spp.	59
92	Hygophum reinhardtii	59
94	Chilara taylori	58
95	Scopelosaurus spp.	57

TABLE 3. (cont.)

Rank	Taxon	Count
96	Sebastolobus spp.	55
97	Sarda chiliensis	45
98	Syacium ovale	40
99	Brosmophycis marginata	37
99	Stomiiformes	37
101	Trachipteridae	35
102	Aristostomias scintillans	34
103	Nomeidae	32
103	Caulolatilus princeps	32
105	Bathophilus spp.	31
106	Mullidae	30
107	Glyptocephalus zachirus	29
108	Brama spp.	26
109	Scombridae	25
109	Mugil spp.	25
111	Loweina rara	24
112	Bathylagus spp.	23
113	Pleuronichthys spp.	22
114	Pleuronichthys verticalis	21
114	Agonidae	21
116	Exocoetidae	20
117	Pleuronectiformes	19
118	Electrona rissoi	17
119	Myctophum aurolaternatum	16
119	Zaniolepis spp.	16
119	Evermannellidae	16
119	Xystreurys liolepis	16
123	Pleuronichthys coenosus	15
124	Bothus spp.	14
124	Apogonidae	14
126	Pleuronichthys decurrens	13
127	Notolychnus valdiviae	12
128	Cyclopteridae	11
129	Scorpaenichthys marmoratus	10
130	-	9
130	<i>Icosteus aenigmaticus</i> Engraulidae	9
130	Psettichthys melanostictus	9
133	Macrouridae	8
133		8
133	Gempylidae	8
133	Syngnathus spp.	8
	Oxylebius pictus	7
137 138	Hypsypops rubicundus	6
138	Girella nigricans	6
138	Tactostoma macropus	6
138	Pleuronichthys ritteri	5
141	Euthynnus spp.	5
141	Scorpaenidae	5
141	Physiculus spp.	5
144	Opisthonema spp.	4

TABLE 3. (cont.)

Rank	Taxon	Count
144	Scomberomorus spp.	4
144	Atherinidae	4
147	Bathylagus milleri	3
147	Seriola spp.	3
147	Medialuna californiensis	3
147	Lophiidae	3
147	Macroramphosus gracilis	3
147	Thunnus albacares	3
147	Citharichthys platophrys	3
147	Uranoscopidae	3
155	Priacanthidae	2
	Total	471006

Numbers of fish larvae taken on stations occupied during CalCOFI cruises in 1959. Counts are adjusted for percent of sample sorted and standard haul factor (see text). Average number is given for stations occupied more than once during a calendar month. Unoccupied stations are indicated by a dash. TABLE 4.

Anguilliformes

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
	0.0	1	1	0.0	1	1	3.9	1	1	0.0	1	1
-	0.0	0.0	ı	0.0	0.0	0.0	0.0	3.2	1	0.0	ı	ı
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ı	2.6	ı	ı
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	2.7	ı	ı
117.0 90.0	0.0	1	ı	0.0	0.0	0.0	0.0	ı	ı	2.7	ı	ı
	1	1	ı	i	ı	ı	ı	ı	2.6	ı	ı	ı
	0.0	0.0	0.0	ı	0.0	0.0	0.0	0.0	2.6	1.8	ı	ı
-	1	0.0	0.0	ı	0.0	0.0	0.0	2.6	ı	0.0	1	ı
_	ı	ı	ı	ı	0.0	0.0	2.9	0.0	1	ı	ı	ı
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	2.4	ı	ı
•	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	3.1	ı	ı
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	ı	0.0	1	ı
•	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ı	19.9	28.8	1	ı
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	91.6	27.9	i	ı
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ı	5.9	7.6	ı	ı
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ı	2.5	ı	ı
	0.0	ı	1	0.0	ı	1	ı	2.2	ı	ı	ı	ı
•	2.5	ı	ı	0.0	1	ł	ı	0.0	ı	ı	1	ı
_	0.0	ı	ı	0.0	1	ı	ŀ	2.3	ı	ı	ı	1
•	0.0	ı	ł	0.0	1	ı	ı	1.7	ı	ı	1	ı
	2.0	ı	1	0.0	ı	ı	ı	0.0	1	ı	ı	ı
•	0.0	ı	1	ı	ı	ı	ı	1.6	1	ı	ı	ı
	0.0	ı	ı	ŧ	ı	ı	1	1.1	1	ı	ł	ı
•	0.0	1	1	t	ı	ı	ı	9°5	ı	ı	ı	ı
	5.9	ı	ı	F	ı	ı	1	ı	ı	ı	i	ı
	6.4	!	I	ı	ı	1	ı	ı	ı	t	I	ı
				Etr	Etrumeus a	acuminatus	çus.					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.

					1			1					
STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
119.0 3	33.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	12.1	1	1
	30.0	0.0	0.0	0.0	0.0	ı	0.0	0.0	0.0	0.0	12.3	1	ı
	40.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	2.8	19.0	0.0	ı	1
	0.9	1	1	ı	ı	ŀ	1	ł	ı	1.8	ı	1	ı
	30.0	ſ	ı	ı	ì	ı	ı	1	ı	5.2	1	ı	1
	37.0	2,1	0.0	0.0	ı	0.0	0.0	0.0	5.9	149.1	52.5	1	ı
	34.0	0.0	0.0	0.0	ı	0.0	0.0	0.0	2.2	0.0	0.0	1	ı
	10.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	5.9	ı	ı
	15.0	0.0	0.0	0.0	ı	0.0	0.0	0.0	0.0	2.5	0.0	ı	ı
	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	164.0	2.8	0.0	i	t
	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.1	0.0	0.0	ı	ı
	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	19.9	11.5	ı	ı

TABLE 4. (cont.)

	DBC.	1	1	ı	1	1	ı	ı		DBC.			DEC.	1	1 9	000)	ı	2.8	00		0.0	32.0		0.0	ı	۳. د. د			0.0	ı	1 6	0.0	0.0	00	
	NOV.	ı	1	ı	1	ı	ı	ı		NOV.	1		NOV.	1	10	0.0)	ı	0.0	0.0) - 	0.0	0.0		0.0	ı	0.0	•		0.0	ı	1 0	o .	0.0	0.0	
	ocī.	3.0	2.0	5.0	1	ŧ	ı	ı		OCT.	1		ocr.	0.0	0.0	000))))	0.0	1	0.0	• 1	0.0	1.7	,	0.0	0.0	7.9	•		0.0	1 9	0.0	0.0	0.0	00	
	SEP.	0.0	13.1	0.0	1	1	1	ı		SEP.			SEP.	1	1	1 1	1	ı	ı	1 1	1 1	1	1	1 1	1	1	ı	1 1	1	ı	ı	1 0	000	0.0	00	
	AUG.	-	36.6	1	1.4	3.4	0.0	0.0		AUG.	4.0		AUG.	,	0.0	000) - -	0.0	ı	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	•	0	0.0	0.0	000	0.0	000	
(cont.)	JULY			0.0	1	ı	1	ı	•	JULY			JULY	0.0	0.0	0.0	, m	. E	1	6.4	2.8	8.2	0.0	0°0	7.7	0.0	0.0	0.0	7.00	3.2	0.0	0.0	000	0.0	0.0	
natus	JUNE			0.0	1	ı	ı	1	ema spp	JUNE	1	s sagax	JUNE		0.0	0.0		0.0	1	0.0		0.0	0.0	0.4	10.0	0.0	15.3	2.4	0.00	0.0	56.4	m (0.0	32.6	59.2 0.0	
s acumi	MAY			0.0	1	ı	ı	ı	Opisthonema spp	MAY		Sardinops sagax	MAY	0.0	0.0	1 5		0.0	1	0.0		0.0	0.0	2.6	0.0	0.0	36.1	2,0	000	0.0	0.0	0.0	113.4	0.0	00	
Etrumeus acuminatus	APR.		•	000	0.0	0.0	0.0	0.0	0	APR.	0.0	S	APR.	0.0	0.0	0.0		0.0	1	0.0		0.0	0.0	3.0	0.0	0.0	0.0	12.0	25.00 0.00	0.0	0.0	0.0	43.0	0.0	107.0	
I	MAR.	0))))	1	ı	ı		MAR.	1		MAR.		ı	1 1	1	1	1	ı	1 1	1	0.0	0.0	1 1	ı	8.8	0.0	18.6) 	ı	F	0.0	0.0	21.6	
	FEB.		о п о п	, ,))))	1	ı	ı		FEB.			FEB.	3.6	10.2	16.0	0 1	ı	40.3	43.5	0.0	33.8	158.7	165.4	0.0	, M	34.3	25.2	11	70) -	3.0	0.0	0.0	0.0	
	JAN.		•	0.0		14.8	16.1	6.0		JAN.	0.0		JAN.	0.0	0.0	0.0		0.0	1	0.0	0.0	0.0	7.8	40.2	000	0.0	211.2	18.0	1 0))))	1	ر و و	0.0	0.0	
	STATION	1						147.0 35.0		STATION	143.0 30.0		STATION	0	77.0 50.0	77.0 55.0																			90.0 50.0 90.0 55.0	

TABLE 4. (cont.)

	DEC.	0000
	NOV.	0000
	OCT.	132.9 129.1
	SEP.	31 2 2 3 3 3 3 5 5 6 6 9 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9
	AUG.	223.8 25.9.8 3.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
(cont.)	JULY	0000 0000
	JUNE	
Sardinops sagax	MAY	64 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Sardir	APR.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	MAR.	
	FEB.	22200000000000000000000000000000000000
	JAN.	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	2	88888888888888888888888888888888888888
	STATION	933.0 93

TABLE 4. (cont.)

				Sardi	Sardinops sagax (cont.	ıgax (c	ont.)					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
0 25.0	0.0	28.7	0.0	0.0	0.0	0.0	0.0	1 4	0.0	0.0		1
23.0	2.1	38.6	41.1	0.0	0.0	0.0	00.	0.0	0.0	0.0	1 1	1 1
0	87.4	ı	ł	0.0	I	I	ı	0.0	I	ı	ı	ı
_	58.5	1 1	1 (•	1 1	1 1	1 1	•	1 1	1 1	1 1	1 1
	15.1	1	1	0.0	1	ı	ı	0.0	ı	1	ı	ı
50.0 19.0	2.3	ı	ı		1	1	1	0.0	ı	ı	ı	ı
					Engra	Engraulidae						
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	ocr.	NOV.	DEC.
1	0.0		1	0.0				6.7	1		1	
43.0 35.0	0.0	ı	1	0.0	1	1	ı	2.3	ı	1	ı	1
				E	Engraulis mordax	s morda	×					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
	10.5	1	1	1	0.0	ı	14.3	,	1	0.0	ı	1
60.0 55.0	0.0	ı	ı	1 1	0.0	ı	14.3	ı	1	0.0	ł	1
	0.0	1 1	1 1	11.8	28.3	1 1	26.6		1 1	0.0	1 1	1 1
	0	1 1	I	1001		1	11.4	ı	1	0.0	ı	ı
	0.0	1	ı	9.66	0.0	ı	2.5	ı	ı	0.0	ı	ı
	0.0	I	ı	16.6	1	ı	0.0	ı	1	0.0	ı	ı
0 55.0	2.9	ı	1	198.3	0.0	ı	10.6	ı	ı	0.0	1	ı
	0.0	1 1	1 1	26.b	23.0	1 1	66.8	1 3	1 1	0.0	1 1	1 1
	1 1	1 1	1 1	l I	6.2	ı ı	0.0	1	1	0.0	i	ı
	0.0	ı	1	31.2	0.0	ı	0.0	1	1	0.0	ı	1
	2.5	1	1	12.0	9.1	ı	5.9	1	ı	0.0	ī	1
	22.3	ı	1	5.0	40.4	1	6.2	ı	1	0.0	ı	I
	0.0	ı	ı	109.6	641.4	ı	16.7	ı	ı	0.0	ı	ı
	1	l	1	i	6.3	ı	0.0	ı	ı	1 0	ı	1
	0.0	1	ŧ	ı	234.9	t	0.0	i	ı	0.0	ı	ı
	ı	i	i	1	0.90	ı	0.0	ı	ı	1 6	ı	ı
	1 4	ı	1	1 4	100.3	1	0.0	ı	1	0.0	ı	ı
	0.0	ı	ı	0.00	1 6	1	ى د د د	1 1	1 1		1 1	1 1
	10	I 1	t I	133.8	2.5	1 1	23.2	1	1 1		1 1	ı ı
	0.0	1 1	l 1	208.0	22.0	1 1	7.79	1 1	1 1		1	1
) 	ı	١	797.3) 1	1	24.7	ı	1)))	ı	ı
	0.0	1	ı	198.4	1	J	6.3	ı	ı	0.0	ı	1
	ı	ı	ı	ı	24.7	1	43.5	1	1	ı	ı	ı

TABLE 4. (cont.)

SEP Engraulis mordax (cont.) 0.0 0.0 0.0 108.8 9.5 9.5 7.0 340.0 135.8 120.9 26.4 1103.9 1091.4 1120.0 965.7 3095.6 8.2 9.2 9.2 110.9 1614.0 1930.5 1651.7 804.0 200.8 APR. 19.5 196.7 11.6 0.0 0.0 2.78.3 869.4 869.4 14.5 JAN STATION

TABLE 4. (cont.)

	DEC.	10000000000000000000000000000000000000	
	NOV.	0.0000000000000000000000000000000000000	
	ocr.	0400000 0 001 000000 0 00 0 00000 0 0 000000))
	SEP.	# /	
	AUG.		•
(cont.)	JULY	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	•
	JUNE	1100 1100 1100 1100 1100 1100 1100 110	•
Engraulis mordax	MAY	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
Engra	APR.	2 30 1 2 30 1 2 30 1 2 55 2 1 5 52 3 1 6 0 2 74 4 1 5 0 2 1 4 5 1 1 5 4 2 1 4 5 1 1 5 5 1 1 5 6 2 1 4 5 1 1 5 6 2 1 4 5 1 1 5 6 1 1 1 5 6 1 1 1 5 6 1 1 5 6	2
	MAR.	270.4 570.4 5475.3 1474.6 1474.6 1474.6 1877.6 188.5 188.5 182.0 182.0 182.0 182.0 182.0 182.0 183.6 17.4 183.0 16.2 17.4 183.0 16.2 17.4 183.0 16.0 17.4 183.0 183.	•
	PEB.	1263.5 1096.0 1096.2 1006.2 10	•
	JAN.	393.6 11.7.2 11.7.2 11.7.2 11.7.2 11.7.2 11.7.2 11.7.2 11.7.2 11.7.2 11.7.2 11.7.2 11.7.2 11.7.2 11.7.2 11.7.2 11.7.3	1
	STATION	88888888888888888888888888888888888888	

	DEC.	
	NOV.	
	ocr.	000000000000000000000000000000000000000
	SEP.	22.9 0.0 0.0 13.0 13.0 3.1
1	AUG.	20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0
(cont.)	JULY	131.9 90.0 90.1 131.9 90.1 10.0
. !	JUNE	2 2 2 2 2 2 2 2 2 2 2 2 3 3 8 8 2 2 2 2
Engraulis mordax	MAY	40.0 41.7 41.7 41.7 46.4 65.3 65.3 65.3 65.3 65.3 65.3 65.3 65.3 65.3 65.3 65.3 65.3 66.3
Engra	APR.	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
	MAR.	162.6 67.5 67.5 67.5 67.5 67.5 67.5 67.5 67
	FEB.	2.6 2.0 2.0 2.0 2.0 2.0 2.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3
	JAN.	275:10
	N	0.000000000000000000000000000000000000
	STATION	

TABLE 4. (cont.)

	DEC.	ı	1	1	ı	1	1		1	ı	i	ı	1	1	١		ı	ı	ı	ı	ŧ	!	1	1	1	ı	ł	ı	ı	ı	ı	1	ı	1	1	ı	ı	ı	ı	1	ı	ı	1	1	ł	t	ı	1	1
	NOV.	1	ı	ı	1	ı	1		ı	1	ı	ı	ı	ı	ı		ı	ı	ı	ı	ŧ	ı	ı	ı	1	1	ı	t	ı	ı	ı	ı	ı	ı	ı	ı	ı	ŀ	1	ı	ı	ı	ı	1	ı	1	ı	ı	ı
	OCT.	0.0	0.0	0.0	0)))	0		0.0	ı	ı	3.0	0.0	2.5			0.0	0.0	0.0	0.0	0.0)	1	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	ı	19.2	0.0	0.0	0.0	0.0	0.0	0.0	ı	0.0	0.0	0.0	C
	SEP.		ı	ı	ı	ŀ			C . 7	102.9	10.5	5.8	17.6	7 7			4.	0.0	ı	ı	ı	t	12.5	2.6	0.0	0.0	1	ı	ı	1	2.7	2.6	0.0	1	ı	1	ı	8.6	0.0	0.0	0.0	ı	ı	ı	ı	2.8	0.0	ı	ı
	AUG.	0.0	0.0	0.0	0			•	0.0	ŀ	ı	0.6	0.0		•		20	0.0	0.0	0.0	2.8	0.0)	3.0	0		0.0	0.0	0.0	0.0	0.6	2.7	0.0	0.0	0.0	16.9	0.0	49.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	ı	e .	2.2	0
	JULY	0.0	0.0	0.0				יייר ר	11.0	ı	1	2.6	0			20.0	7.47	0.0	0.0	0.0	0.0	0) 	0.0		0.0	0	0.0	0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	2.9	20.9	0.0	0.0	25.1	24.1	0.0	0.0	0.0	27.5	16.1	1185.6	0
- 1	JUNE	124.0	95.5	12.6		•	•	9.0	1.69	ı	1	8	46.5	18.3	0.01	0.11	7.0	2.7	8.5	0.0	0			166.4	171.7	177.0	9.49.5	157.9	4.9	2.7	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	301.7	85.8	11.3	15.8	0.0	0.0	
	MAY	0.0		145.0	20	, ,		•	0.0	ł	,	1	1	1	ı	1 9	53.1	349.6	65.5	2.8			• 1	ر د	A . L A	0.0					30.2	54.4	954.2	0.0	0.0	0.0	0.0	8.8	51.2	18.4	0.0	0.0	0.0	0.0	1	33.2	18.6	2.8	0
26.00	APR.	251.5	0 7511	2398.6	A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	*	T * 0 * T	0.00	1430°1	1	1	232.3	A12.5	1000	0.071	1.4.5	8.76	663.0	134.3	826.1		, r		ı	ı	- 1	ı	ı	ı	ı	1	1	1	1	ı	ı	ı	28.0	0.0	22.6	23.3	8.1	0.0	0.0	ı	4.8	2.3	0.0	
	MAR.	i										442.0	200		. 000	48/./	40.6	49.3	94.9	4			• 1	40.4	* 0		20.00	25.00		. 1	63.8	24.1	0.0	3.0	0.0	6.1	ı	263.0	454.3	0.0	0.0	0.0	0.0	0.0	i	16.6	11.9	22.4	
	FEB.	13 3		, a		•	0.0	0.0	3.1	1	ı	20 2	200	. T.	2.00	7.67	16.9	98.4	25.9	2.0		,,	. 7	100	200.0	000		,			5.7	0	267.5	35.4	0.9	0.0	1	468.5	11.6	26.9	0.0	0.0	3.0	0.0	ı	304.2	78.0	7.8	
	JAN.	7 7	, ,	•	•	0.0	1 0	0.0	1.9	1	ı	23A 2	2.1.5		502.9	24.0	79.2	109.1	37.4		•	• 1	1 1	150 0	133.0	•	0 1	1	•	•	1003 0	683.6	62.6	28.9	0 1	0.0	1	2142.7	0.0	0.0	0.0	0.0	0.0	0.0	1	121.8	158.8	7.6	
	z	A E O	0.0	0.00	0.00	0000	0.00	70.0	39.0	25.0	20.0	000	0.00	20.0	30.0	35.0	40.0	45.0	50.0		200	0.0	0.00	27.0	20.0	42.0	0.0	0.00	0.0	0.00	34.0	40.0	45.0	50.0	יי ער היי ער	0.09	65.0	30.0	35.0	40.0	45.0	50.0	55.0	60.09	65.0	25.0	30.0	35.0	
1	STATION	117.0	117.0	11/00	11/00	11/.0	117.0	117.0	118.0	118.5	118	000	120	120.0	120.0	120.0	120.0	120.0	120 0	120.0	120.0	120.0	120.0	120.7	123.0	123.0	123.0	123.0	123.0	123.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	133.0	133.0	133.0	1

TABLE 4. (cont.)

	DEC.	1.1		ı	ı	ı	1 1	ı ı	ı	ı	ı	ı	ŧ	ı	ı	1	DEC.	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		i	1	1	ı	ı	t		ı	t	ı	1 1	ı	
	NOV.	1,1	1 1	1	1	ı	1 1	۱ ۱	1	1	ı	ŀ	1	ı	ı		NOV.	1	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0 1	1	1	ı	ı	ı	1		1	ı	ı	1 3	ı	
	OCT.	000	0.0	13.9	12.6	10.0	•		ı	ı	ı	ı	ı	1	ı		OCT.	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	•		0	0.0	0.0	0.0	0.0	7.0	0.0	0.0	0.0	000	0.0	
	SEP.	1.1	0.0	0.0	3.0	ı	1 1		ı	1	ı	ı	ì	ı	ı		SEP.	ı	1	ı	ı	1	ı	ı	1 0	0.0		1	1	ı		0.0	0.0	0.0	2.9	ı	1 0	1	
	AUG.	000	0.0	0.0	10	0.0	0.0	•	0.0	1.8	0.0	0.0	0.0	0.0	0.0		AUG.	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	•	•	4	2.8	0.0	0.0	0.0	0.0	000	0.0	0.0	•	0.0	
cont.)	JULY	30.8	8.0	2.5	0.0	0.0	0.0	• 1	ı	1	ı	ı	1	ı	1	S	JULY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	•	•		0.0	0.0	0.0	0.0	000	0.0	0.0	3.0	-	0.0	
rdax (JUNE	0.0	0	49.0	0.0	0.0	0.0	۲۰۶	ı	1	ı	ı	ı	ı	1	sialis	JUNE	,	3.0	3.4	0.0	0.0	0.0	0.0	0.0	•	•		0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	ر د د د	0.0	
Engraulis mordax (cont.	MAY	0.0	1 1	9.6	8.1	0.0	0.0	0.0	1	ı	1	ı	1	1	ı	Argentina	MAY	0.0	0.0	0.0	2.8	0.0	0.0	0.0	200	7.7	* 0	•	0.0	0.0	0.0	0.0	0.0	000		0.0	••	0.0	
Engra	APR.	0.0	0	7.2	339.8	24.9	0.0		0.0			5.6	41.7	0.0	0.0	A	APR.	0.0	0.0	0.0	0.0	0.0	0.0		0.0	٠	•	•	0.0	12.7	0.0	0.0	0.0	2.5	0.0	0.0	1 0		
	MAR.	0.0	14.8	2775.6	531.0	ى ق و	0.0	0.0	1	ı	ı	ı	ı	ı	i		MAR.		1	ı	1	ı	2.7	0.0	0.0	0.0	0.0		000	0.0	0.0	2.8	0.0	0.0	0.0	0.0	m c	0.0	
	FEB.	3.0	3 2	2158.3	547.4	5.8	12.4	35.3	1 1	ı	ı	ı	1	ŀ	ı		FEB.	3.6	0.0	0.0	0.0	0.0	3.1	0.0	0.0	ກໍເ	000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	JAN.	0.0			162.1						4.8	0.9	0.0	7.9	14.3		JAN.	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	•		0.0	0.0	0.0	0.0	0.0	4.0	0.0	1 0	0.0	
	Z.	45.0	70.0	23.0	30.0	35.0	40.0	45.0	0.0	45.0	26.0	30.0	20.0	25.0	30.0		Z	51.0	55.0	60.09	70.0	47.0	43.0	35.0	40.0	78.0	20.0	35.0	45.0	32.0	45.0	30.0	35.0	39.0	35.0	70.0	20.0	35.0	
	STATION	133.0	133.0	137.0	137.0	137.0	137.0	137.0	140.0	140.0	143.0	143.0	147.0	147.0	147.0		STATION	73.0	80.0	80.0	80.0	82.0	83.0	87.0	87.0	0.06	100.0	103.0	103.0	107.0	113.0	117.0	117.0	118.0	120.0	120.0	123.0	133.0	

TABLE 4. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
1	0.0		1	2.8	0.0		3.8	1	1	0.0	1	ı
	1	2.2	ŀ	ı	ı	ı	ı	ı	ı	1	ı	ı
	0.0	0.0	i	0.0	0.0	ı	0.0	1	ı	2.5	1	ı
	1	ı	ı	1	0.0	1 (6.1	ı	ı	1 4	1 0	1 6
	0.0	0.0	ı	0.0	0.0	0.0	12.3	ı	ı	0.0	0.0	0.0
	ı	ı	ı	1 0	0.0	0.0	3.2	1 0	ı	i .	ı	
	i	ı	i	0.0	0.0	0.0	0.0	0.0	1	ı	ı	1
	ı	1	ı	0.0	0.0	0.0		1 4	1	1 9	1 9	1 6
	0.0	0.0	ı	0.0	0.0	0.0	0.0	0.0	ı		•	
	ı	0.0	ı	0.0	0.0	0.0	0.0		1 1	•		9 1
	ı	0.0	1 9	0.0	4.0	0.0	0.0			0.		. 1
	ı	1 0	0.0	1 4	0.0	200	0.0	•	•	c	-	-
	ł	0.0	0.0	0.0	200	000		0.0	•	•	•	
	1 9	0.0	0.0	•		•	,,	•				
	0.0	0.0	0.0	•	•	,,	, ,	•				
	0.0	0.0	•	•	•	, c	000			0	0.0	0.0
	٥)))	0 1			0	0.0	0.0	0.0		1	1
	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	1	0.0	1	ı
))))))	0.0	0.0	0.0	3.0	0.0	ı	1	ı	ı
97.0 80.0	0.0	2.3	1 4	0.0	0.0	0.0	0.0	0.0	ı	0.0	1	1
	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	ı	0.0	ì	ı
				N.	Nansenia	candida	a					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0 80.0	0.0			0.0	3.4		0.0		1	0.0	ı	ı
70.0 85.0) 	ı	ı)	3,5	ı	0.0	ı	ı	ı	ı	1
70.0 90.0	0.0	1	i	18.3	0.0	١	0.0	t	1	0.0	ı	ı
73.0 65.0	ı	ı	ı	5.7	0.0	ı	0.0	ı	1	1 0	ı	ŧ
73.0 70.0	0.0	0.0	ı	0.0	0.0	1	0.0	ı	ı	0.0	1 1	1 1
73.0 80.0	ı	ı	ı	0.0	3.0	ı	0.0	1	ı	0.0	1	1 1
77.0 75.0	ı	1	ı	10	٠ • •	1 0	n c	1 1	ł I	-	ı ı	1
0.06 0.77	1	1 1	۱ ۱	0 1	2 . 7) 	• 1	ı	1)	1	1
0.0010.00			1	ı		,	ı	1	1	ı	ı	ı
	1	1.5	1	0.0	0.0	0.0	0.0	0.0	ı	0.0	0.0	0.0
	1)	1	0.0	0.0	2.8	1	0.0	i	1	1	1
87.0 80.0	ı	0.0	ı	0.0	0.0	3.1	0.0	0.0	ı	0.0	ı	ţ
				٧	Vanseni	Nansenia crassa	m					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
0 00 00 0			0	0	3 3		0	0.0	1	0.0	ı	1
	•	•	•	•	•	•	,	,		,		

TABLE 4. (cont.)

					Nanse	nia cra	Nansenia crassa (cont.	ont.)					
STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JOLY	AUG.	SEP.	OCT.	NOV.	DEC.
1	15.0		0.0	0.0	0.0	0.0	0.0	0.0	3.1	-	0.0	1	1
	55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ı	0.0	Ι,	ı
0	35.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	1 1	0.0	1 1	1 1
	0.0	0.0	0.0			, c	•	•	90	1 1	•	1	1
	0.0	•		•		,,		0.0	, ,	0		ı	ı
113.0	0.0	9 1	•		4.7							ı	1
		2 5			2.3	0	0.0	0.0	0.0)	0.0	1	1
113.0		, ,		0	0.0	3.2	0.0	0.0	0.0	ı)	1	1
	0.5	1	0.0	0.0	0.0	0.0	0.0	2.9	0.0	ı	ı	1	ł
	0.0	0.0)	1	0.0	0.0	0.0	0.0	ı	ı	2.7	ı	ı
	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ı	0.0	ı	ı
	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	ı	0.0	1	ı
	0.0	1	0.0	0.0	1	0.0	0.0	0.0	0.0	ı	2.7	ı	ı
	0.0	0.0	0.0	0.0	ı	0.0	0.0	0.0	0.0	0.0	2.9	ı	ı
	5.0	2.8	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	ı
	5.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ı	0.0	ı	ı
	15.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	ı	0.0	ı	ı
	15.0	0.0	2.9	0.0	0.0	0,0	0.0	0.0	0.0	ı	0.0	ı	ı
137.0 5	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	ı	0.0	ı	ı
	15.0	0.0	ı	ı	2.9	ı	ı	ı	0.0	ı	ı	ı	I
	0.0	0.0	ı	J	2.9	ı	ı	ı	0.0	ı	ı	ı	ı
	5.0	2.0	ı	i	ı	ı	ı	ı	0.0	ı	ı	ı	ı
					. 7	Bathyla	Bathylagus spp						
STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
!	0.0	0.0	2.9	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0
	0.0	ı	0.0	0.0	0.0	0.0	1 4	0.0	3.0	0.0	0.0	1 0	0.0
	5.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0			7.7	c 1 C) 		٥٠١	1	1
123.0 6	60.0	0.0	0.0	0.0	· I	2.8	0.0	0.0	0.0	ı	0.0	1	ı
	12.0	ı	ı	ı	ı	1	ı	2.7	ı	ı	I	ı	ı
					Ba	thylagu	Bathylagus milleri	ri					
STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.08	53.0		3.1			 					ı	0.0	0.0

Bathylagus ochotensis

JAN. FEB. MAR. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	APR. 28.1 28.1 28.1 28.1 29.0 0.0	MAY 1	JONE	1 1 1 1 1 1 1 1 1 1	AUG.	- HE S 1 1 1 1 1 1 1 1 1	2.7 2.9 2.9 2.9 0.0 0.0	NOV.	DEC.
111111111111111111111111111111111111111		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	11111111111111111111			111111111111111111111	0.00	1 1 1 1	111
111111111111111111111111111111111111111		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					6.60 0 000	1 1 1	1 1
111111111111111111111111111111111111111		12200000000000000000000000000000000000					0.0000	1 1	ı
		22.500000000000000000000000000000000000					0 000	1	
11111111111111111111111111111111111111		12.000 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					0.000		1
		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					000	ı	
11111111111111111111111111111111111111		2.5 2.5 12.5 12.5 12.5 2.5			11111111111111	11111111111	000	I !	1 1
11111111111111111111111111111111111111		2.9 0.0 0.0 0.0 0.0 0.0 12.5				11111111111	000	ı	ı
		0.0 5.7 5.7 12.5 2.9 0.0	11111111111			1111111111	0.0	ı	ı
		12.5 0.0 12.5 0.0 0.0 12.5			11111111111	111111111	0	1	ı
11111111111111111111111111111111111111		12.5 0.0 0.0 0.0 12.5 2.7			1111111111			. 1	
1110002110010431111111111111111111111111		12.5 2.0 0.0 0.0 12.5		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11111111	1111111	0 1		1 1
11		12.5 0.0 12.5		,0000000000			•		
0.000.00000000000000000000000000000000		12.5 2.5 2.5 2.5	1111111			111111		ı	1
		2.9 0.0 12.5 7.5	111111	00000000	111111	11111	0.0	t	I
11111111111111111111111111111111111111		0.0 12.5 2.7		0080000	11111	11111	0.0	ı	ı
111111111111111111111111111111111111111		12.5	1111	0 80000	11111	1111	0.0	ı	ŧ
		12.5	1111	80000 0000	1111	1 1 1	0.0	ł	ł
111111111111111111111111111111111111111		2.7	1 1 1	0000	111	1 1	ı	ı	ı
			1 1	000	1-1	1	0.0	ı	ı
1		0.0	ı	0.0	ı		0.0	ı	ı
11110000111		5.9		0.0		1	0.0	ı	1
1111164010114000111		5.3	ı		ι	ı	0.0	1	1
			t	0.0	ı	1	0.0	ı	1
111640001111		11.0	ı	0.0	1	ı	ı	ı	ı
0.0000000000000000000000000000000000000		10.2	1	0.0	1	ı	0.0	ı	ı
1.44.0 0.0000000000000000000000000000000		10.4	ı	0.0	ı	í	ı	ı	ı
14000111		0.0	1	0.0	ı	ı	0.0	ı	ı
0 0 0 0 0 0 1 1 1 0 1 0 1 0 1 1 1 1 1 1		0.0	1	0.0	f	1	0.0	ı	1
0.0000111			1		1	ı		t	1
0.000		0.0	ı	0.0	ı	1	0.0	ı	ı
0.000.111		0.0	ı	0.0	ı	1	ı	ı	1
0000111		3.0	ı	0.0	1	ı	0.0	ı	ł
0.00		6.1	1	0.0	ı	ı	1	ı	ı
0.000111		12.1	į	0.0	1	1	1	1	ŧ
0000		0	0.0	0.0	0.0	1	0.0	1	ı
000))))		0	0	1	0.0	0.0	0
0 0 1 1 1		0.0			0	1	0.0	0.0	0
) 				0))) 	ı	0.0	0.0	0
t I		. ~			ı	1) 1	,	1
. 1			c		ı	t	0	1	ı
			0		1	ı	0.0	ı	ı
3.1			1	. 1	1	1	1	0.0	0
2.5		9.6	0.0	0.0	0.0	1	0.0	0.0	0
0.0		3.0	0.0	0.0	0.0	ı	0.0	0.0	0
0.0		0.0	0.0	0.0	0.0	ı	0.0	0.0	0.0
1		0.0	0.0	0.0	0.0	ı	ı	ı	ł

TABLE 4. (cont.)

00 000 0000 0000 8 111101000 S 00 000 0000 0000 0.000 NON 000000000 b 5 000000000 11111111110000000001111111 SEP SEP 11111111111 00000 (cont.) JULY JULY 0000000000 0000000000 pacificus Bathylagus ochotensis JUNE 00000 11111100000 Bathylagus 2400000 0000 APR. 70008800800007 MAR 11111111111 20.8 0.04 E 110091967 JAN 655.0 600.0 600.0 770.0 770.0 770.0 600.0 610.0 STATION STATION 60.0 67.0 67.0 73.0 73.0 77.0 880.0 880.0

000

TABLE 4. (cont.)

				A	athyla	Bathylagus pacificus	ificus	(cont.	(
STATION	7	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	55.0	0.0	3.2	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
					Ba	Bathylagus	s wesethi	hi					
STATION	5	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	ocr.	NOV.	DBC.
63.0	80.0			1		0.0		3.3	ı	1	0.0	1	ı
67.0	90.06	0.0	1	ı	0.0	ı	ı	7.8	ı	ı	0.0	ŀ	ı
70.0	0.06	0.0	ı	ı	2.6	11.2	ı	0.0	1	ı	0.0	t i	1
73.0	70.0	0.0	0.0	1 -	0.0	0.9	1 1	000	ł I	1 1	0.1	1 1	1 1
73.0	85.0	1 1	1 1	1 1	1 1	000	1	0.0	ı	1	1	1	ı
77.0	0.00	1 1		- 1	0.0	3.5	0.0	0.0	ı	ı	0.0	ı	ı
77.0	85.0	ı	ı	ı		2.8	0.0	0.0	ı	ı	ı	ı	ı
80.0	80.0	0.0	0.0	ı	0.0	0.0	0.0	0.0	9.1	ı	0.0	ı	ı
80.0	85.0	1	ı	ı	0.0	0.0	0.0	0.0	3,3	t	ı	ı	ı
80.0	110.0	ı	1	ı	ı	18.4	ı	ı	1	1	ı	1 1	
80.0	145.0	ı	ı	ı	1 0	ກ ດ	1 0	1 9	1 9	t I	1	1 1	۱ ۱
83.0	65.0	10	1 0	1	•	n u	, o	•		1 1	c	ı	1
83.0	70.0	0.0	0.0	1 1	•	ດທ	00	0.0		1	• 1	ı	1
000	0.00	+ 1	ı	ł		6.0	0	0.0	ı	ı	1	ı	ı
200	0.00	0.0	0.0	ı	15.9	3.0	2.9	2.5	0.0	1	0.0	1	í
87.0	35.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	ı	0.0	0.0	0.0
87.0	55.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	1	2.5	48.1	0.0
87.0	65.0	ı	1 4	ı	0.0	0.0	0.0	2.5	2.0	1 1	9	1	ı ı
87.0	70.0	1 1	0.0	1 1			۰ د د	0 1	9.9		• 1	ı	ı
0.78	0.0	1 1	-		14.8	10.0	6.1	0.0	0.0	ı	0.0	ı	ı
87.0	85.0	ı) 	ı	6.0	5.9	0.0	0.0	0.0	ı	1	1	ı
87.0	0.06	ı	0.0	ı	2.8	5.9	5.5	0.0	18.7	1 0	0.0	1 9	1 6
90.0	55.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	•	•	90
0.00	65.0	1 !	0.1)))		0.0	200	2,5	000		• 1	
0.00	20.02	ł	0.0		5.8	3.0	0.0	12.2	12.0	0.0	0.0	0.0	0.0
90.06	75.0	ı) 	8.0	0.0	0.0	0.0	12.6	11.1	1	1 4	1 9
90.06	80.0	ı	1.5	0.0	0.0	8.9	0.0	0.0	9.6	9.7	0.0	0.0	0.0
0.06	85.0	ı	1 0	1 4	0.0	ص ص د	1	0.0		LO. 3	10	1 1	
0.06	0.06	ı	0.0	0.0	2.8	200	1 1	o 1	0.1	200	* 0 I	1	9 1
0.00	130.0	1 1	1 1	1 1	1	2 6	1	ı	1) 	i	,	ı
0.06	145.0	ı	1	ı	1	2.8	ı	ı	1	ı	ı	1	1
93.0	50.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	ى ق	ر 4. د	0.0	800	0.0
93.0	60.0	0.0	0.0	3°T	0.8	000	000		000	16.6	C - 7)))	ני
0.00	0.00				2								

δ

74000 840000 800000 Bathylagus wesethi (cont.) 0 0 0000 0 0 0000000 0 0 000000 0 FEB JAN STATION

o.o.

TABLE 4. (cont.)

	DEC.	1.1	ı	1 1	ı	1	ı	ı	1 1	1	1	ı	ì	ı	ı	ı	1 1	1	i	•	ı	1 1	ı	ı	ı	1 1		ı	ı	ı	1 1	ı	ı	1	ı	1 1	ı	1	ı
	NOV.	1 1	ı	1 1	ı	ı	ı	ı	1 1		ı	ı	ı	ı	ı	ı	1 1		ı	1	ı	1 1	1	ı	1	1 1	! I	ı	ı	1		ı	ł	i	ı	1 1	1	ı	ı
	OCT.	0"0	0.0	3.0)	0.0	0.0	0.0		0 0	0.0)	0.0	0.0	0.0	0.0	0.0	000) 	0.0	1 6	,	· 1	0.0	0.0	0.0	٥	0.0	1	0.0	•	0.0	8,2	2.9	1 (000	2.5	0.0	0.0
	SEP.	1 1	ı		1	0.0	0.0	ı	ы	- 1	1	1	ı	0.0	0.0	0.0	1 1	ı I	ı	t	ì	1 1	2.3	0.0	0.0	l I	l I	1	1	1 6	0.1	- 1	1	1	2.9	0.0	1	0.0	
	AUG.	6.4	2.0	15.2	3,3	11.0	200	3.5	, , ,			1	1	2.4	6.5	0.0	10.4	7.0	0.0	19.5	18.5	12.8	ı	2.9	0.0	0.0	, 4		5.7	9.0	, r , r	, ,	2.9	1	1 (0.0	0.0	0.0	0.0
(cont.)	JULY	0.0	2,0	2.8	2.7	0.0	0.0	0.0	0.0	, ,	2.7	18.1	9.6	ı	0.0	17.7	2,0	0.0	0.6	0.0	3.2	۰ ۲	, ,	0.0	2.9	2.7	•	0.0	0.0	0.0	•		0.0	0.0	1 (0.0	ຸນ	0.0	0.0
sethi	JUNE	3.0	0.0	0.0	0.0	0.0	0.0		0.0			0.0	0.0	0.0	0.0	0.0	4.0		0.0	2.5	2.7	0.0	· • I	0.0	0.0	0.0	•	0.0	0.0	0.0	•		0	0.0	1	0.0	0.0	2.6	0.0
Bathylagus wesethi	MAY	0.0	0.0	000	0.0	2.7	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	•	0.0	0.0	0.0	•		0	0.0	1 4	0.0	0.0	0.0	2.7
Bathyl	APR.	0.0	0.0	000	0.0	0.0	0.0	0.0	0.0	•		0.0)	0.0	0.0	4.7	0.0	0.0	2.1	0.0	0.0	0.0		2.5	19.4	0.0		0.0	0.0	0.0				0.0	ı		ı	i	ı
	MAR.	2.7	0.0	0,0)	0.0	0.0	0.0	0.0	•			0.0	0.0	0.0	0.0	0.0		0.0	0.0	1 (0.0	1	0.0	0.0	0.0	•	0.0	1	0.0	•			0.0	1 4	0.0		0.0	0.0
	FEB.	0.0	ı	1 1	ı	0.0	0.0	0.0	0.0	•	•	•	0.0	0.0	0.0	0.0	0.0		0.0	0.0	ı	1 1	1 1	0.0	0.0	0.0	•	0.0	ı	1 0	0.0			0.0	1	0.0		0.0	0.0
	JAN.	0.0	0.0	2.4		0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	1 1	0.0			0.0	1 (0.0)))	0.0	0.0	0.0	0 1	0.0	ı	0.0	000			0.0	1 4	0.0	0.0	0.0	0.0
	NC	55.0	70.0	80.0	85.0	35.0	40.0	50.0	22.0	0.00	0.0	25.0	0.06	30.0	35.0	40.0	45.0	0.00	65.0	70.0	75.0	0.0	40.0	35.0	40.0	55.0	65.0	70.0	75.0	80.0	4. 0. 0.	70.0	80.0	90.0	34.0	55.0	70.0	45.0	20.0
	STATION	107.0	107.0	107.0	107.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	115.0	117.0	117.0	117.0	117.0	117.0	117.0	117.0	120.0	120.0	120.0	120.0	121.2	123.0	123.0	127.0	127.0

TABLE 4. (cont.)

0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	JAN	z.	FEB.	MAR.	Bathyla APR.	Bathylagus wesethi APR. MAY JUNE		(cont.)	AUG.	SEP.	OCT.	NOV.	DEC.
MAR. APR. MAY JUNE JULY AUG. SEP. OCT. NOV. 16.4 12.1 16.4 16.		10011101	0001110	0.00		0.0000	00000	0,00000	000000	111111	0000	1171111	1111111
MAR. APR. MAY JUNE JULY AUG. SEP. OCT. NOV. 10.0 244.5	3.2	1 1 1		1 1 1	- Leur	- oqlossu	- s still	o.z - bius	1.7	1.1		1-1	1 1
10.0 288.3 3.0 0	JAN. FE	E	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	ocr.	NOV.	DEC.
10.0 28.3 3.0 1.	1	Ι'				44.5		0.0			0.0		
16.4 12.1	0.0	' '		1.1	0.0	28.3	1 1	3.0	1 1	1 1	0.0	1 1	1 1
43.2 0.0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	- 0.0	'		1	16.4	12.1	ı	0.0	ı	ı	0.0	ı	ı
33.2 0.00 11.5 0.00 18.5 0.00 10.0 0.00 10.4 0.00 10.0 0.00	0.0	1 1			43.2	0.0	1 1	0.0	1 1		0.0	1 1	1 1
11.5	0.	1			33.2	0.0	ı	0.0	ł	ı	0.0	ı	i
18.3 18.3 18.5	1	1		ı	ı	11.5	ı	0.0	1 :	1	1 6	1	
Second	0.1			l I,	l i	18.3	1 1	0.0	1 1		0.1		1 1
8.5 8.5 9.0 16.4 12.5 17.6 47.2 1 18.4 0.0 18.5 6.0 18.5 6.0 19.		1		ı	1	6.3	ı	0.0	ı	1	1 4	ı	1
16.4 10.3	0.0	1 1		1 1	ຜູດ	0.0	1 1	0.0	1 1	1 1	0.0	1 1	1 1
16.4 10.3	. ~	1		1	7.6	47.2	1	0.0	ı	,	0.0	ı	1
46.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	8.	ł		1	16.4	10.3	ı	0.0	ı	ı	0.0	1	1
46.4 3.0 - 0	ا ا	' '		1 1	1 1	0.0	1 1		1 1		0.0	1 1	1
46.4 3.0 - 0		1		1	ı	12.0	ı	0.0	ı	ı	1	ı	ı
46.4 10.0		'		ı	ı	3.0	1	0.0	ı	1	0.0	1	1
126.8 18.5 - 0.0 -	•	•	ı	ı	46.4	0.0	ı	0.0	ı	ı	0.0	ı	ı
126.8 34.2 13.1 13.1 10.2 10.0	0.0		1 1	1 1	72.0	2 - G	l 1		1 1	1 1	•	1 1	۱ ۱
34.2		•		1	126.8		- 1	3.0	1	ı	9 1	1	ı
- 13.1 21.9 - 0.0 0.0 - 0.	0.	'	1	1	34.2	ı	ı	0.0	ı	ı	0.0	ı	ı
- 13.1 10.2 - 0.0		•		ı	1	21.9	ŀ	0.0	ı	ı	1	1	ı
45.3 16.0 - 0.0				ı	13.1	10.2	ı	0.0	ı	1	0.0	1 1	1 1
8.4 0.0 - 3.1	0.0	1 4	۷	1 1	45.0	16.0	1 1	7°T	1 1	1 1	0.0	! !	1
- 8.4 0.0 - 3.1	4	40	6.0	1	2	0 1	1)))	ı	ı))) 	ı	1
	8.4 25.0	25	0.	,	8.4	0.0	ı	3.1	ı	ı	0.0	ı	ı
	24.	24	7.4	1 1	7	0		C C	! !	1 1	0	1 1	ı ı

TABLE 4. (cont.)

112. 1991. 1993. 1994. 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		13.4 12.1 13.1 10.0 10.0 10.0 10.0 10.0 10.0 10	44.4 12.1 - 44.4 12.1 - 5.8 0.0 - 6.0 - 45.9 - 0.0 -	11.5 44.4 44.4 12.1 5.8 8.7 6.0 10.
		12.1 3.0 0.0 0.0 0.0 0.0 1.1 1.1 1.1 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3		44.4 45.8 85.8 34.8 95.0 15.2 15.3 15.3 15.3 15.3 15.3 15.3 15.3 15.3	4.4.4 4.5.9 1.0.0
		2.6 2.6 2.6 2.6 2.6 2.8 2.8 2.8 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3		25.2 25.3 3.0 25.3 25.3 25.3 25.3 25.3 25.3 25.3 25.3	252.0 115.3 115.3 115.3 115.3 115.3 115.3
		26.8 26.8 26.8 26.8 26.8 26.8 26.8 26.8		255 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	252.0 252.0 252.0 252.0 252.0 252.0 252.0
		1111 26.88 8.99 8.99 115.7 116.3 103.4 113.9 113.9		252 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45.9 15.5 15.5 15.0 15.0 15.0 15.0 15.0 15.0
		26.8 26.8 8.9 8.9 8.9 8.9 1.1 1.1 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3		45.9 34.8 0.0 0.0 15.2 15.3 15.3 0.0 0.0	45.9 1.5.5 1.5
		1111 26.8 26.8 6.4 6.4 111.8 111.8 110.3 113.9 113.9 12.9		34.8 0.0 0.0 1.5.5 1.5.5 1.5.3	34.8 34.8 34.8 35.0 35.0 3.0 3.0 3.0 3.0
		26.8 26.8 26.8 26.8 111.8 103.4 103.4 113.9 113.9		252 1555 1555 2550 2550 2550 2550 2550 2	252.0 155.0 155.0 155.0 155.0 155.0 155.0 155.0
		26.8 8.9 8.9 8.9 11.5 142.3 10.3 10.3 113.9 113.9		252.0 152.0 153.3 252.0 25.0 25.0 25.0 25.0 25.0	252.0 252.0 1.53.0 1.53.0 1.53.0 1.53.0
		142.3 103.4 103.4 103.9 103.9 103.9		252 0 155 155 155 155 155 155 155 155 155 1	252.0 252.0 15.38.0 15.39
		6.4 2.8 11.8 142.3 103.4 11.3 13.9 13.9 13.9 13.9 13.9 13.9		25.2 25.2 25.3 15.3 3.0 2.3 2.3 2.0 2.0	25.0 25.0 15.5 15.3 15.3 15.3
		2.8 11.8 11.8 103.4 103.4 15.3 13.9 13.9 13.9 13.9		252.0 252.0 38.0 15.3 2.0 2.0	252.0 252.0 252.0 252.0 252.0 25.0 25.0
		5.7 11.8 142.3 103.4 16.3 16.3 15.7 41.1		252.0 252.0 38.0 3.0 2.0 0.0 0.0	252.0 252.0 15.3 138.0 13.0 13.0
		11.8 142.3 103.4 16.3 13.9 5.7 41.1		255.0 252.0 38.0 15.3 2.9 0.0	252.0 252.0 15.38.0 15.39 10.00
		142.3 103.4 16.3 13.9 5.7 41.1		252.0 252.0 38.0 15.3 2.9 0.0 0.0	252.0 252.0 38.0 15.3 1.0 1.0 1.0
		142.3 103.4 16.3 13.9 41.1		252.0 38.0 15.3 3.0 2.9 0.0	252 252 25.0 15.3 10.0 10.0
		103.4 16.3 13.9 5.7 41.1 2.9		38 15.3 3.0 0.0 0.0	138.0 138.0 3.000.0
		16.3 13.9 41.1 2.9		11 00000000000000000000000000000000000	
		41.1 41.1 2.9		00000	00000
		41.1		0000	1 1 1
		41.1		000	0.000
		7 . 7		0 0	000
		20.0		0 4 7	9.7
		3,1			1
		10.8		3.3	3.3
		0.0		1.6	0.0
		2.6		9.9	40.8
		4.0		4T.U	32 5
		30.3		17.1	- 17.1
		62.0		11.3	- 11.3
		55.0		0.0	0.0
		2.7		ຕຸ ຜູ	۳°6
6.7		0.0		٠ د د	٠ ١
				0.0	0.0
		7.0		٥٠	23.5 6.0
		2.3		22.5	3.0 6.0
		10.1			10.0
•		6.01		70.7	TO.0 TO.3
		15.5		30 V	30.6
		1 1		היני	F C C
		, ,		100	

			T	епгодто	SSUS SI	Leurogiossus stilbius	(cont.					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
1				5.8	3.0	0.0	1	0.0	1	1	1	ı
		0.0	1 4	0.0	0.0	H.	0.0	0.0	1 0	0.0	() 1	1 6
		2.0	2.4	2.7	110./ 53.6	•	•				0.1	
		7.01	-	0.0	25.9	000	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	3.1	35.5	77.8	0.0	6.8	2.8	0.0	0.0	0.0	0.0	0.0
		17.3	43.2	2.8	0.0	8.5	ı	0.0	0.0	0.0	0.0	0.0
		0.0	4.2	26.1	0.0	11.5	0.0	0.0	0.0	0.0	2.7	0.0
		0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	o .
		1 4	0.0	1 0	7.0	•	200			c	14.	-
	1 1	0 1	0.0		0.0	4.2	0.0	0.0	0.0	• 1	† • • •	
	1	1	1		0.0				2.9	!	ı	t
	1	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0	0.0	0.0	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0	0.0	0.0	6.1	200	, ,	0.0	0.0	0.0	000	0.0	000
	0	0.0	7.7	ກຸດ	0.0	0.0	0.0			•		
			31.9	23.3	, v	3.0		0.0	000	0.0	2.8	0.0
	00		67.4	17.0	7.2	9.6	0.0	0.0	0.0	0.0	6.1	0.0
)		. 1	2.8	0.0	0.0	0.0	0.0	0.0	1	1	1
93.0 70.0	0.0	1	0.0	0.0	0.0	0.0	200	0.0	0.0	0.0	0.0	0.0
		10	1 0	2.0	0.0	0.0		0.0	0.0		۱ ۱	1
		0.0	7.0	۰,۰	000	•			1		1	ı
		000	, ,	2.0	ָ טיני	7.01		0.0	1	0.0	ı	1
		0.0	0.0	57.6	15.4	3.2	2.9	0.0	1	0.0	ı	ı
		0.0	0.0	56.0	2.9	0.0	0.0	0.0	1	0.0	ı	i
		2.3	0.0	0.0	0.0	0.0	2.7	0.0	ı	0.0	ı	ı
		0.0	0.0	0.0	6.0	0.0	0.0	0.0	ı	0.0	1 1	1
		0.0	0.0	000	D C	1.0	3.0	•	1 1) 	1 1	1
		0	0	ָ	17.1	0.0		0.0	ı	0.0	1	ı
		0.0	0.0	0.0	18.7	0.0	0.0	0.0	i	0.0	ı	1
		0.0	0.0	0.0	3.1	0.0	0.0	0.0	ı	0.0	ŧ	ı
		0.0	0.0	0.0	0.0	2.8	0.0	0.0	1	0.0	1 -	1
		0.0	2.7	3.2	0.0	0.0	0.0	0.0	1 1		1 1	۱ ۱
		0.0	100	10.0	0.0	•	•		1 1		1	ı
		000	0.0	0.0	0.0	2.0	0.0	0.0	1	0.0	ı	ı
		0.0	0.0	0.0	0.0	3.1	0.0	0.0	1	0.0	ı	ı
		0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	1	1 -
	0.0	0.0	0.0	7.04	000	0.0	000	•	•		1 1	1 1
		000	7.0	2.7	0.0	000	0.0	0.0	٥	0.0	ı	1
		0.0	0.0	0.0	0.0	0.0	0.0	3.2	1	0.0	ı	1

TABLE 4. (cont.)

DEC. DEC. NOV NON 5 SEP SEP (cont.) JULY 0 0000000000 Leuroglossus stilbius Stomiiformes JONE 0 000000000 22.77 0 000000 0. 00.00001 EB FEB 00 100 1000000000 100000 11110000000 STATION STATION 1113.0 1113.0 1113.0 1113.0 1113.0 1113.0 1113.0 1113.0 1120.0 11 50.0 87.0 97.0 100.0 1107.0 1120.0 1123.0 1133.0

TABLE 4. (cont.)

MAR. ARR. MAY JUNE JULY AGG. SER. OCT. NOV. DESC. 11.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	
10.0	JAN. FEB. MAR.
0.00	1
2.7 2.7 2.7 2.7 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9	1 0.0
2.7 6.00 6.10 6	1
16.10	1 1
18.5	,
6.1 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	1
3.0 8.1 8.1 8.1 8.2 9.2 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	1
16.5 1.0	1
8.6 8.6 8.6 8.7 9.8 9.8 9.8 9.8 9.9 9.0 9.0 9.0 9.0 9.0 9.0 9.0	1
8.6 1 1 1 1 1 1 1 1 1	ı
16.5 1.5	ı
5.8 1.6.5 1.6.	ı
16.59 5.99 0.00 0.00 0.00 0.00 0.00 0.00 0	1
16.59 5.9 5.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	- 0.0
16.5 2.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1
2.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.2
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1
18.2 2.8 3.2 - 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	- 0.0
18.2 2.8	0.0 0.0
18.2 2.8 2.8 2.9 2.7 2.8 2.8 2.9 2.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	- 0.0
12.8	1.5
12.3 12.3 12.3 12.3 12.3 12.3 12.3 13.4 13.5 13.6	ı
12.8 4.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0
12.8 4.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1
12.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0
0.0 0.0 0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0	
3.4 2.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1
2.8	0.0
2.8	1
2.8	7.9
11.6 11.4 11.4 10.0	ı
11.6	ı
18.5 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	ı
11.4	1
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1
2.8 0.0 0.0 8.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0
2.4 0.0 0.0 0.0 2.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0
0.0 0.0 0.0 0.0 0.0 5.5 - 2 3.0 0.0 0.0 3.3 0.0 0.0 2.9 6.1 0.0 5.4 0.0 0.0 0.0 0.0 0.0 0.0	0.0
3.0 0.0 0.0 3.3 0.0 0.0 2.9 6.1 0.0 5.4 0.0 13.6 5.4 0.0 0.0 0.0 0.0 0.0 0.0	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0.0
5.4 0.0 0.0 0.0 0.0	
	8.3 2.7 0.0

	DEC.	0.0	6.0	1	1 1	ı	ı	ı	1	1	1 1	1	1	1	1	ı	1 1	1	ı	ı	ı	ı	1 1	1	1	1	1	۱ ۱	1	ı	1	ı	1 1	. 1	ı	1	1		ı	
	NOV.	1 1	1	1 1	1 4	ı	ı	ı	ı	ı	1 1	1	ı	ı	ı	ı	1 1	ı	ı	ı	ı	ı	1 1	1	ı	ı	ı	1 1	1	i	ı	ı	1 1	1	1	,	ı	1 1	ı	
	ocr.	1 1	i	1 0	11.7	0.0	0.0	ı	0.0	1 4	0.0	7 96	9.0	2.8	3.0	18.2			0.0	1	9.4	0.0	78.7) «	22.7	1	0.0	C 1 C	. 1	0.6	5.5	0.0	4.0	12.1		0.0	1 6	C.77 _	24.2	
	SEP.	10.2	2.0	21.8	1	ı	1	ŀ	ı	ı	1 1	. 1	1	ı	ı	ı	1 1	1	ı	ı	i	ı	1 1	ı	1	ı	ı	1 1	ı	ı	ı	ı	1 1	1	1	ı	ı	1 1	ı	
	AUG.	9.2		1 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	4.0.	7	6.7	6.3	6.3	1.5	25.3		23.9	36.0	0.0	7.0	15.8	9.9	0.0	2.9	12.0	10.5	3.5	0.0		2.60	48.6	
cont.)	JULY	5.9	1	1 6)	0.0	0.0	0.0		٥٩	י טיר	0.0	0.0	0.0	0.0	6.0		0.0	0.0	0.0	10	2.0		0.0	0.0	0.0	2.0	2.8	5.4	0.0	2.8	0.0		5.2	35.6	20.4	4.4	2.8	
_ 1	JUNE	3.1	1	1 0		0.0	0.0	0.0	6.5	٠ د د	9.0		0.0	2.8	0.0	0.0		•	6.7	8.6	0.0	0.0) 0 0		2.8	5.7	2.0	•	0.0	0.0	0.0	0.0	0.0		0.0	0.0	œ ه ه ه	000	0.0	
yclothone spp.	MAY	0.0	ı	1 0	000	3.0	0.0	0.0	0.0	0.0) c	,,	0.0	0.0	6.1	0.0	æ c		2.8	0.0	13.2	0.0	0.0	•	0.0	0.0	0.0	•	0.0	3.0	0.0	0.0	9.4	4 C	6.3	0.0	0.0	7.5	0.0	
Cyclc	APR.	2.9)	1 9))) 	0.0	2.9	2.8	2-7	× • • • • • • • • • • • • • • • • • • •		0.0	0.0	0.0	0.0	•		5.5	0.0	0.0	0.0	0.0		7.9	0.0	0.0		000	2.8	0.0	0.0	0.0	٥,٠	12.8	2.8	0.0	, c	0.0	
	MAR.			10		0.0	0.0	ı	ı	1	ıı	1 1	0.0	4.9	0.0	0.0	2.3	1	ı	ı	1	2,5	2.3		0.0	1	4.9	1 0		ı	0.0	0.0	0.0	2.0	0.0	2.5	1 0	0.0	2.8	
	FEB.	10		1 6		0.0	0.0	ŧ	5.3	,	4.6	0	0.0	0.0	0.0	0.0	0.0	C • 7	13.2	1	12.0	0.0	n c		0.0	1	6.9	1 4	ı	ı	0.0	0.0	0.0	4.4	6.1	0.0	ı	LI	I	
	JAN.	Ι α	•	10		20.0	8.1	1	0.0	1 0	ο. Ο.	7	* 1	0.0	0.0	10	0.0	0 1	0.0	,	0.0	0.0	0.0		0.0	ı	5.8	0	0 1	18.5	0.0	0.0	0.0		0.0	0.0	10	0.0	7.2	
	ION	0 85.0																																						
	STATION	93.0	93.(93°	9/0	97.6	97.6	97.(97.(97.1	97.	. 70	100.	100.0	100.	100.	1001	001	100.0	100.	100.	103.0	103.0	103	103.0	103.0	103.0	103.	103	103.0	107.(107.	107.	107	107.	107.(107.	107	107.	

				Cycle	Cyclothone spp. (cont.	spp. (c	ont.)					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC
!												
		ı	,	0.0	•	V . C	0.0	0,00			,	
107.0 90.0	0.0	1 6	1 4		0.0	•		2.12	0	*I*	1	1 1
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	ı	ı
110.0 40.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.7	1 1	1 1
	2.0	0.0	0.0		17.0	9.0			1		1	1 1
	0.0	6.2	0.0	0.0	24.3	0.0	0.0	2.0	ı	0.0	1	l
	2.8	11.8	0.0	0.0	0.0	0.0	0.0	20.0	ı	20.7	ı	ı
	0.0	9.4	2.7	2.7	0.0	5°3	0.0	72.2	ı	10.2	ı	ŧ
	1	0.0	2.8	0.0	0.0	0.0	4.8	12.6	ı	ı	ı	ı
	2.4	0.0	0.0	0.0	0.0	0.0	2.6	0.0	ı	12.4	ı	ı
	1	òi)))		11.4	2	00	0.0	1	1	1	ı
		0	0			000	2 2 2	200	ı	-	ı	ı
	1./1	6.0	0.0	•	0.0	9.0	9.5	7.0	ı	. 1	,	١
			1 0	0.0	0.0	0 .	* C					
	4.1	0.0	3.0	1	0.0	n n	7.1	1 4	1	11.3	ı	ŧ
	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	2.1	0.0	ı	ı
	0.0	6.2	0.0	0.0	0.0	0.0	2.8	22.6	0.0	0.0	1	ı
		0.9	3.0	0.0	0.0	2.8	0.0	13.8	5.4	5.5	ı	ı
	2.1	10.2	0.0	5.1	0.0	0.0	8.5	3,5	1	5.9	1	1
		2.0	0.0	0	0.0	5.2	0.0	23.4	ı	2.7	ı	ı
					2.0	2.7	3.0	0	1	3.1	ı	i
	10		200	,,				2.7	ı	0	ı	1
	. 1	. "			3.0	0.0	12.0	0.9	1		ı	ı
	•	,			, c	7.4		30.0	ı	5.4	ı	ı
	0	0 1	0 1				1 2 2	49.4	ı		ı	ı
			0		, ,	•	47.7	A . L. Z	ı	27.2	ı	ı
	0.0	1 (0 1	•		•	18.0	+ 1	ı	1	ı	ı
	7.		1 1			•	200	ı	١	0 0	ı	ı
	14.3	ı	1	0.0	0.	0.1	6.7	. 1	3	1	1	ı
	1 4	1 4		9		•	0	0	90	0	1	1
	0.0		9.0	•	•		•		•		1	1
	0.0	000	•	•	000	,,		100			ı	ı
		•						22.6	• 1		1	ı
		•		•	, 0	•			1	0	١	ı
	, a			•	200				ı	2.6	1	ı
	ייטר.	9 0	,	0,1	1			. ~	1		ı	١
	1001	0.0				, ,		,)))	ı	ı
0.00 0./11	1 5	1.4.1				7.0			-	0	1	1
	10.3	0.0	0.0	0.0			•	000	ı	• 1	ı	ı
	1 0	ı	1 9	0.0		•		0.0		6	1	1
17.0 80.0	7.9	ı	0.0	0.0	0.0	0.0	000	11.0	1	0 1		ı
17.0 85.0	1 0	ı	ı	0.0	y	0.0	0.0	1	1 1	9 01		ı
	2.5	1 4	1 (8.7	0.0	0.0	7.0	,	1 4	0.0		
18.0 39.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.T	0.0	0.0	1 1	1 1
	1 9	1 1	1 (1 4	1 0	1 0	1 9	1 0	7.0	1 0	l	
	0.0	3°0	0.0	7.7	0.0	2.0	0.0	7.7	1	•	1 1	1 1
120.0 55.0	5.0	0.0	0.0	5.6	0.0	2.8	0.0	0.0	ı	200		1 1
	0.0	3.1	7.3	ע מ	0.0	0.0	0.0	•	I	1 - 7		

TABLE 4. (cont.)

	DEC.		1	ı	ı	1 1	1		ı	1	ı	ı	ı	ı	1 1	1	1	ı	ı	ł	1 1	ı	1	ı	1	ı	1 1	ı	ı	ı	ı	1 1	1	ı	1	1	ı	ı	ı 1	1 1
	NOV.	1 1	ı	ı	ı	i I	1	ı	ı	ı	ı	ı	ı	ı	1 1	ı	1	1	1	ı	1 1	- 1	1	1	ı	ı	1 1	í	1	ı	ı	L	1	ı	ı	ı	1	ı		1 1
	OCT.	201	• • • •	5.5	i	۲. ۶ د. ۶	0	000	0.0	0.0	0.0	10.1	22.9	1 9	٠ ٠ ٠		2.8	1	8.9	0.0	0.0		0.0	0.0	1 6	8.0	•		9.0	0.0		4.0	•		0.0	0.0	0.0	1 9	0.0	1 1
	SEP.	1 1	1	ı	ı	α 1 -		2.6	0.0	1	ı	ı	1	,	T. C	ı	ı	ı	1	0.0) c		1	1	ı	ı	ı ı	ı	1	i	1	1 9		ı	1	ı	t	1	1	l 1
	AUG.	3.3	7.8	40.2	ı	1 1	0 %	0.0	1	0.0	0.0	0.0	2.7	1 9	٥.٠		200	12.4	5.7	2,3	ب 4 د	, -	1.0	2.8	1.2	0,	1.1 2.1	7.	6.1	5.2	1 9	0.0	c 1 c	, , ,	2,3	0.0	ı	ı	ı	1 1
nt.)	מתר	0.0	21.7	11.3	5.1	7:7	0	000	0.0	0.0	0.0	0.0	2.7	1 0		α 1 α	11.6	35.0	41.9	0.0	0.0	•	0.0	10.8	2.9	2.5	•		0.0	0.0	5.5	22.6	•		14.3	5.1	7.9	13.8	7.7	2.7
pp. (cc	JUNE	0.0	0.0	0.0	0.0	2.6	0	11.8	0.0	0.0	2.8	0.0	2.9	1 6	13.2	27.6	10.6	2.8	0.0	0.0	٥,٠	0.0	2.7	3.0	5.7	2.9	000	•) 	ı	ı	1 6	•		0.0)	ı	ı	ı	1 1
Cyclothone spp. (cont.	MAY	5.6)))	2.6	m o	0.0	0	9	5.6	5.9	5.8	5.6	3.5	1 0	0.0	, C	0	0.0	2.8	0.0	200	•	2.7	8.0	ı	1 0	000	•	1	ı	ı	1 6	•	000	27.0) - 1	1	ı	1	1 1
Cyclo	APR.	10.2	0.0	0.0	0.0	0.0		1	ı	ı	ı	ı	ı	ı		ı	1	1	ı	0.0	0.0		0.6	0.0	t	1 0	000		0.0	2.5	ı	10	0.0			0.0	0.0	1 9	0.0	0.0
	MAR.	2.8	٠ ا د	0.0	1 9	0.0	0	000	0.0	0.0	3.0	0.0	ı	1 0	•	•))) 	1	0.0	5.7	0.0	9.0	0.0	1	1 6		, c		1	ı	10		,,	6.0	1	1	ı	ı	1 1
	FEB.	0.0)))	0.0	1 0	0.0	0	0.1	0.0	0.0	0.0	0.0	ŧ	1 0	0.0	•	000)	1	0.0	0.0	•	0.0	2.7	1	1 0	0.0	•	. 1	ı	ı	1 0	7.0	•	000) 	1	ı	ı	1 1
	JAN.	10	1.7	7.7	1 (2.8	0	2.0	0.0		ı	7.5	0.0	7.6	7.0	•	0.0))))	0.0	0.0	0.0	•	0.0	0.0	ı	1 0	0.0	•	0.0	0.0	ı	10	•		0.0	0.0	0.0	1 (7.7	2.5
	-	65.0	75.0	0.08	85.0	90.0	20.00	42.0	45.0	50.0	55.0	0.09	70.0	80.08	0.0	20.00	60.0	65.0	70.0	35.0	40.0	0.0	55.0	60.09	65.0	0.07	40.0	20.0	55.0	0.09	65.0	70.0	20.0	A5.0	50.0	55.0	0.09	65.0	70.0	80.0
	STATION	120.0	120.0	120.0	120.0	120.0	120.7	123.0	123.0	123.0	123.0	123.0	123.0	123.0	127.0	127.0	127.0	127.0	127.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	133.0	133.0	133.0	133.0	133.0	133.0	137.0	137.0	137.0	137.0	137.0	137.0	137.0	137.0

TABLE 4. (cont.)

	DEC.	1	ı	ı	ı	ı	ŀ	ı	ı	1	ı	ı	1	ı		DEC.	ŧ	ı	i	ı	1	ı	l I	1	ı	ı	ı	1	ı	ı ı	ı	1	ı	ŧ	ı	1	ı	ı	ı	1 1	ı
	NOV.		ţ	ı	ı	1	ı	1	ı	ı	ı	ı	ı	ı		NOV.	1	1	ı	ı	ı	ı	1 1	1	ı	ı	ı	ı	ı	1 1	ŧ	ı	ı	ı	1	ı	1	ı	ı		ı
i i i i	OCT.	,	ı	ı	ı	1	ı	ı	1	ı	,	1	ı	ı		OCT.	0.0	0.0	2.8	0.0	0.0	1 6	2.5	T. 1	ŀ	0.0	ı		0.0	•	2.00	0.0	0.0	ı	ı	ı	ŧ	ı	ı	1 1	ı
8 8 8 8	SEP.	1	ı	ı	ı	ı	ı	1	1	ı	ı	ı	ı	ı		SEP.	1	1	1	ı	ı	ı	1 1	۱ ۱		1	ı	1	0.0	1 1	ı	ı	ı	ı	1	1	ı	ı	ı	1 1	ı
	AUG.	0.0	1.6	4.6	3.6	2.2	2.0	1.9	0.0	3.7	3.2	1.1	1.9	ı		AUG.	2.8	3.2	0.0	6.1	3.0	3.5	0.0	1 0			ı	2.9	1:1				6.0	1	0.0	0.0	0.0	0.0	0.0	۰ ۲	4.7
ont.)	JULY	1	1	1	ı	ı	,	1	ı	ı	ı	1	ı	ı	æ	JULY	0-0	3.0	2.8	0.0	0.0	0.0	0.0	•		0.0	2.6	0.0	0.0				0.0	0.0	1	ı	ı	ı	1	1 1	1 1
pp. (c	JUNE	ı	ı	ı	1	ı	ı	ı	1	ı	ı	ı	ı	1	s taeni	JUNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.0	0.0	2.9	0.0	0.0	0.0))))	1	ı	i	ı	ı	ı	1 1	! !
Cyclothone spp. (cont.	MAY	,	1	1	1	ı	ı	1	1	ı	1	ı	1	ı	Diplophos taenia	MAY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	•	9 1	0.0	0.0	0.0	0.0	0.0	9	c) 	ı	ı	ı	ı	ı	ı	1 1	1 1
Cyclc	APR.	0.0	0.0	0.0	1	0.0	0.0	0.0		1	1	ı	1	ı	Di	APR.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	1	0.0	0.0	0 1	0	0	2.6	0.0	0.0	0.0	0.0	2.9	ر ت ت	1 1
	MAR.		ı	ı	ı	ı	1	1	,	ı	1	1	ı	ı		MAR.	0	0.0	0.0	0.0	ı	0.0	0.0	1 9	0.1	0.0	1	1	0.0	0.0) 	0		1	ı	ı	1	í	ſ	1 1	l I
	FEB.		ı	ı	ı	1	ı	ı	ı	ι	ı	ı	ı	ı		FEB.		0.0		ı	,	0.0	0.0	1 0	0.0	0.0		i	0.0	0.0	0.1	0)))	1	1	1	ŀ	1	1	1 1	l I
	JAN.	2.5	0.0	0.0)	0.0	0.0	0		•			0.0	2.3		JAN.		0	0.0	0.0	0.0	1	0.0	0.0	1 1	0.0		ı	0.0	0.0	0.1	-		0.0	1.9	1.7	2.5	2.1	0.0	0.0	0.0
	2	45.0	50.0	55.0	70.0	25.0	30.0	0.00	200	25.0	45.0	0.05	55.0	35.0		2	20 0	0.09	70.0	80.0	0.06	65.0	70.0	90.0	0220	80.0	85.0	65.0	45.0	50.0	2000	20.0	25.0	80.0	55.0	40.0	45.0	20.0	50.0	60.0	40.0 40.0
	STATION	140.0	140.0	143.0	143.0	147.0	147.0	147.0	147.0	150.0	150	150.0	150.0	153.0		STATION	0 201	107.0	107.0	107.0	107.0	110.0	110.0	113.0	120.0	120.0	120.0	123.0	130.0	130.0	130.0	1220	137.0	137.0	140.0	143.0	143.0	147.0	147.0	147.0	150.0

TABLE 4. (cont.)

	DEC.	1	ı	1	1	ı		DEC.	0.0	0.0	1	0.0	1	1 1	1	1	ı	1	1	ı	ı	ı	1	1 1	ı	1	1	1 1	1 1	1	1	ı	1	ı		•	1 1	
	NOV.	1	1	1	1	ı		NOV.	0-0	0.0	ı	0.0	1 1	1 1	1	1	1	1	1 1	1	ı	ı	ı	1 1	ı	ı	ı	1 1	l 1	1	1	ı	ı	1	1 1	1	1 1	
	OCT.	1	ı	ı	ı	ı		OCT.	0.0	0.0	0.0	0.0	6.0	0.0)))	0.0	ı	0.0		0.0	0.0	0.0	0.0	•	2.7	3.1	0.0	10	200		0	2.7	ı	0.0	•	0	000	,
	SEP.	ı	ı	ı	1			SEP.	1 1	ı	i	0.0	ı	1 1	ı	ı	ı	ı	1 1	1	1	1	ı	1 0)))	ı	ı	1 :	1	1 1	0.0	1	ı	0.0	0		1 1	
	AUG.	11.1	0	2.0	11.3	ı		AUG.	0.0	0.0	3.2	0.0	0.0	•	3.5	3.2	0.0	0.0	0,0	, m	0.0	0.0	3.0	د ا د		0.0	n. 9.3	0.0				0.0	ı	0.0	000	0.0	000	•
cont.)	JULY	ı	ı	ı	ı	ı	p.	JULY	0.0	0.0	0.0	0.0	0.0	•	· i	0.0	0.0	1 0	•	0.0	0.0	0.0	0.0	0.0	000	0.0	0.0	0.0	0.0	•		0.0	0.0	2.7	0.0	0.0	000	•
enia (c	JUNE	,	1	1	1	ı	ccus sp	JUNE	2.9	0.0	0.0	2.0	0.0	0.0		0.0	3,3	2.9	0.0	0.0	0.0	0.0	0.0	9.0	000	0.0	2.5	2.7	0.0	90		0.0	0.0	0.0	000		10	•
Diplophos taenia (cont.	MAY		,	1	ı	ı	Ichthyococcus spp.	MAY	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	۳. د د	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0			0.0	3.3	3.0	9,0	2.7		•
Diplo	APR.		ı	1	ı	ı	IC	APR.	0.0	0.0	0.0	0.0	0.0	8.0		0.0	0.0	0.0	0.0	000	0.0	0.0	0.0	ى 1 ر	2.5	0.0	0.0	0.0	0.0	9.6	, 0	0.0	0.0	1	1 0		000	•
	MAR.		ı	1	ł	ı		MAR.		1	ı	0.0	0.0	0.0	. 1	ı	ı	0.0	0.0	0.0	0.0	0.0	0.0	0.0	000	0.0	0.0	1 0	0.0	0.0	•	0.0		0.0	0.0			2
	FEB.		ı	ı	ł	ı		FEB.	0.0	000	0.0	0.0	0.0	0.0	٥	0.0	1	0.0	0.0	0.0	0.0	0.0	1 1	0.0	•	0.0	0.0	ı	1 (0.0	0	0.0		0.0	0.0		0 0	•
	JAN.		900	0.0	0.0	3.7		JAN.	0.0	7.0	ı	ı	0.0	1 9	٥	0.0	1	0.0	0.0	0.0	2.7	2.4	0.0	0.0	C	0.0	0.0	1 0	0.0	0.0	•	0.0		0.0	10		200	•
	Z	0 37	0.0	0.00	25.0	70.0		Z	80.0	0.0	80.0	60.0	32.0	40.0	20.00	70.0	85.0	35.0	45.0	20.0	32.0	0.09	80.0	0.06	20.0	55.0	70.0	75.0	80.0	45.0	30.0	70.0	85.0	42.0	55.0	0.0	55.0	7.0
	STATION	0	150.0	150.0	153.0	157.0		STATION	83.0	200	87.0	0.06	97.0	100.0	0.00	100.0	100.0	103.0	103.0	103.0	107.0	107.0	107.0	110.0	113.0	113.0	113.0	113.0	113.0	117.0	118.0	120.0	120.0	123.0	123.0	130.0	133.0	13/00

TABLE 4. (cont.)

							-					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JOLY	AUG.	SEP.	ocT.	NOV.	DEC.
137.0 80.0	0.0			0.0	 		2.7	ı	1	ŧ	Ι,	ı
				Vinc	Vinciguerria lucetia	ia luce	tia					1
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
67.0 90.	0.0			0.0			0.0	-	1	7.9	ı	1
77.0 80.0		ı	ı	0.0	e c	0.0	0.0	1 1	1 1	0.0		1 1
77.0 90.	1 0	1 0	1 1		000	000	0.0	0.0	ı	2.8	0.0	0.0
80.0	4.8	0.0	ı	0.0	0.0	0.0	0.0	0.0	ı	0.0	0.0	0.0
80.08		1 4	ı	0.0	0.0	0.0	0.0	n c	1 1	2	1 1	
80.0	5.3	0.0	1 1	0.0	2.0	0.1) 	. 1	1	9 1	1	1
80°0 T00°		1	1 1		11.6	ı	ı	i	ı	ı	1	ı
80.0 130.		ł	ı	ı	19.3	ı	ı	ı	ı	ı	ı	ı
80.0 145.	1	ı	ı	ı	14.4	1	1	1 (1	10	1 9	1 0
83.0 55.	0.0	0.0	ı	0.0	0.0	0.0	0.0	0.0	1 (2.0	0.0)
83.0 70.	0.0	0.0	ı	0.0	900	20	•		1 1	0.0	ı	ı
83.0		6.0			000	0.0	0.0	6.1	ı	0.0	ı	ı
87.0 50.			0.0	0.0	0.0	0.0	0.0	0.0	ı	2.9	2.5	0.0
87.0 55.		0.0	1	0.0	0.0	0.0	0.0	0.0	1	2.5	8.5	0.0
87.0 60.		0.0	l	0.0	0.0	0.0	0.0	000	1 1	0.1	14.1	7.1
87.0 65.	0 0	u 1 -	1 1	•			0.0	7.6	ı	0.0	ı	ı
87.0 75		1	ı	0.0	0.0	5.6	1	52.8	i	ı	1	ı
87.0 80.	1	0.0	ı	0.0	2.8	6.1	0.0	35.4	ı	0.0	1	1
87.0 85.		1 0	ı	0.0	0.5	9.5	0.0	0.0	1 1	1 0	1 1	1
87.0 90.		0.0	1 0	200	200	00	000	4.0	7.5	0.0	2.5	0.0
90.0 28.					0	0.0	9	0.0	0.0	5.1	0.0	0.0
90.0		3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	8.2	0.0
0	1	0.0	0.0	0.0	6.4	ص م و	0.0	0.0	0.0	0.0	٠. د د د	0.0
0		1 4	2.3	1 6	0.0	•	3.5	78.0	3.4.2	0	15.7	0.0
٥.	1	0.0	7.7	2.25	٥.	•	000	103.6	108.0		1	
90.0	1 1	2.9	2.6	14.4	8.9	0.0	0.0	51.4	62.9	0.0	3.5	0.0
	1	1	1	5.8	18.6	1	0.0	33.7	24.5	1 1	ŀ	1 4
	1	23.2	4.5	19.7	0.0	ı	2.9	48.3	62.6	11.2	1	0.0
0	1	ı	ı	ı	2.8	ı	1	1 1	31.7	1 1	1 1	٠ ١
90.0 110.	0	1	ı	1 1	34.8		1 1	۱ ۱	264.3	ı	1	ı
- · ·	1 1	1 1	1 1	1 1	104.3	1	1	ı		ı	1	,
90.0 130.	· I	ı	ı	ı	2.8	ı	ı	ı	1	ı	ı	ı
93.0 30.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.5	2.5	3.0

TABLE 4. (cont.)

	DEC.	000000000000000000000000000000000000000	ı
	NOV.	20000000000000000000000000000000000000	ı
	OCT.	68.2 68.2 11.1 11.1 11.5 185.9 185.9 106.9 106.9 11.3 11.3 11.3 11.3 11.3 11.3 11.3 11	0.0
	SEP.	1000 1000	ı
•	AUG.	220229881008	1.5
(cont.	JOLY	22.28 22.21 153.99 22.28 153.99 153.9	ı
ucetia	JUNE	130.00000000000000000000000000000000000	0.0
erria l	MAY	10000000000000000000000000000000000000	0.0
Vinciguerria lucetia	APR.	10000000000000000000000000000000000000	0.0
4	MAR.	000000 1 2 1 7 4 4 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5.8
	FEB.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2.3
	JAN.	227.7.4 0.00 0.00 0.00 0.00 0.00 0.00 0.00	5,3
	Z	11000000000000000000000000000000000000	35.0
	STATION	933.00 930.00 900.00 900.00 900.00 900.00 900.00 900.00 900.00 900.00 900.00 900.00 900.00 90	103.0

Vinciguerria lucetia (cont.)

1	DBC.	1	ı	ı	ı	ı	ı	ı	ı	ı	ı	1	ı	ı	ŧ	1	ı	١	1	ı		1 1	l	ı	ı	l	ı	ı	ı	ı	I	ı	I	ı	I	ł	ı	ı	1	ŧ	ı	ı	ı	1	ı	1 1	l	
	NOV.	1	1	ı	1	1	ı	1	1	ı	ı	ı	1	ı	ı	ı	ı		,	1	ı	1	ı	ı	ı	ı	ı	i	1	ı	ı	ı	ı	ı	í	1	1	ı	ı	ı	ı	ı	ı	ı	ı	1	ŧ	
	OCT.	11.8	169.2	108.8	308.2	434.5	1	17.6	1	39.7	1	379.3	27.7	25.2	8	200	2000	3 - 1 - 1			, , ,	0.00%	1 4 6	7.477	1 5	247.4	0.0	0.0		, v	400	8.77	30.7	1 6	133.4	1 6	33.1	1	85.5	0.0	7.8	13.8	20.6	19.0	56.0	5.1	1 7	6.4.2
	SEP.	ı	1	ı	ı	1	ı	ı	ı	ı	ı	ı	ı	ł	i	ı				- 1	1	1	ı	1	1	1 ;	11.6	4.0	2.1	ı	ı	ı	I	ı	ı	ı	ı	ŀ	1	8.4	0.0	294.8	ı	ı	ı	ı	ı	ı
,,	AUG.	1.5	529.2	1309.5	1044.9	1294.7	1188.0	138.2	168.3	248.7	267.8	167.3	87.1	17.3	436.5	731 4	205	4.00.	100.1	32.0	0.77	200.0	7.000	860.3	877.5	406.0	312.5	139.7	20.02	20.9	288.0	807.8	5011.4	309.7	97.7	90.2	141.8	1	1	7.2	565.3	489.5	241.5	164.1	69.9	76.2	2117	C./001
	JOLY		72.0	185.9	312.4	63.8	98.8	65.8	312.4	529.2	609	292.7			2.5		113.6	114.0	424.7	1.224	4/0.7	1.104	0.011	80.00	207.5	127.9	0.0	11.7	0.0	0.0	0.00	382.9	460.3	123.4	97.3	484.8	2504.4	388.5	403.2	1	173.3	336.3	190.3	68.5	56.4	81.0	183.0	532.0
	JUNE	2.7	0	159.0	53.6	193.1	206.6	64.0	27.6	87.6	12.3	120.1	10					1.	, ,	7 36 6	135.7	7.97	143.0	58.7	289.9	111.9	0.0	19.3	32.1	333.9	202.9	225.9	71.3	45.1	20.0	179.5	206.3	196.0	119.3	0.0	5.5	16.9	2.7	28.5	16.0	2.7	4.0	0.20
	MAY	0	3.	62.0	81.4	0	86.8	23.6	18.5	163.8	234.6	317.8	, r		8 8		ייונ	2010	174.0	153.7	151.5	195.3	152.5	79.4	91.8	34.7	2.5	52.1	65.3	106.8	2/3.6	94.4	32.6	43.5	46.1	71.3	80.6	27.6	34.9	0.0	16.0	0.0	13.2	94.4	22.9	5.8	122.7	19.9
	APR.	2.6	8	25 A	11.6	8	19.8	0.8	45.6	7.7	16.1	0	0.0	200	7.77	יים פיים פיים	142	140.0	0.017	200	20.02	32.1	80.9	14.1	29.8	50.9	0.0	0.0	7.1.7	69.4	51.1	26.6	19.0	22.6	18.8	37.7	40.0	42.5	1	0.0	0.0	0.0	5.6	99.5	27.7	33.9	25.4	102.9
	MAR.	29 B	11.5	10.01	7.7	16.7	1	29.5	1	14.3	1	ı	-	. ב	10			4.L.	13.0	37.0	1 (7.4	1	2.8	ŀ.	1 9	0.0	0.0	0.0	2.8	0.0	11.1	10.8	2.8	5.4	1 -	0.0	ı	3.0	0.0	2.7	5.9	14.1	6.4	28.4	0.0	2.9	y. x.
	FEB.	5 2	, r			, , , ,	1	0		ı	1		•	•	2.5	1.4.		1.70	9.77	74.4	1	ı	ı	ı	ı	1 (0.0	0.0	0.5	8.1	43.3	112.5	47.0	40.2	0.0	ı	20.6	ı	26.7	0.0	12.4	26.8	5.1	29.1	13.8	6.2	0.9	28.0
	JAN.	4		900				37.6	, 1	126 4	1071	73 0	, 0		•	* 0		0.0	1.7	31.5		80.4	1	26.5	ı	5.5	0.0	2.7	8.2	8.2	2.7	5.7	0.0	1	9.6	ı	57.0	ı	16.3	1.3	0.0	ı	8.5	15.1	21.1	0.0	1 !	27.9
	NC	0 0 0	45.0	0.0	אר ה ה	0.0	200	20.02	75.0	0.0	9 9		0.00	20.00	0.0		0.0	0.00	22.0	0.00	65.0	70.0	75.0	80.0	85.0	0.06	33.0	35.0	40.0	45.0	20.0	55.0	0.09	65.0	70.0	75.0	80.0	85.0	90.0	30.0	35.0	40.0	45.0	50.0	55.0	0.09	65.0	0.0/
	STATION	102 0	2001	200	103.0	200	201	200	103.0	103	200	200	103.0	107.0	107.0	107.0	107.0	107.0	10/01	107.0	107.0	107.0	107.0	107.0	107.0	107.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0

TABLE 4. (cont.)

DBC.	, , , , , , , , , , , , , , , , , , ,	1 1 1
NOV.		1 1 1
oci.	374.5 356.1 0.0 0.0 0.0 0.0 102.7 50.9 97.3 298.1 20.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	7.8 2.7 8.0
SEP.	11.24.00 11.04.00 11.05.	9.9
AUG.	1239.1 1688.5 1 0.0 1 0.0 1 0.0 1 0.0 1 0.0 2 0.	11.6
JULY	11602.1 11862.1 12862.1 100.0	23.0 0.0 0.0
JUNE	8.44.8 1883.77 1883.77 1883.77 1883.77 1863.75 1975.50 1000	34.3 227.1
MAY	26.1 26.1 34.0 37.5	240.6 592.8
APR.	2.64 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111
MAR.	17.1 1 1 1 2 2 2 2 2 2	32.9 0.0 3.0
FEB.	11111111111111111111111111111111111111	000
JAN.	0 8 00001274 0 9 90 00007448 0 4 1 18	2.5
NO	0.000000000000000000000000000000000000	45.0 50.0 55.0
STATION	0.000000000000000000000000000000000000	123.0 123.0 123.0

DEC.		ı	ı	1	ı	ı	1	ı		ŧ	ı	ı	ı	ı	1	1			I	ı	ı	ı	ı	ı	ı	ı	1	ı	ı	ı	i	ı	i	1	1	ŀ	ı	ı	ı	ı	ı	: 1	ı	ı	ı	ı	ı	ı	ŀ	ŧ	
NOV.		, '	,	ı	1	ı	1	1			ı	ı	1	1	1	ı	1		ı	ı	t	ı	ı	ı	ŀ	í	ı	1	ı	ı	ı	ı	ı	ı	1	ı	ı	ı	1	ı	1		ı	ı	1	ı	ı	ı	1	ı	
OCT.		71.1	1 6	538.5	0.0	17.6	2.9	24.8		1.16	2.99	ı	74.5	ı	28.8	σ) r		7:17	7.7	0.0	16.9	1	31.3	5.8	12.1	14.1	2.7		124.2	176.4	45.4		29.8	7 9 1			, c	, r	. ת ה		200	788.	0.0	ı	120.8	ı	ı			
SEP.		ı			2.7	18.0	27.9			ı	ı	ı	ŧ	ı	0.0		, c		11.0	ı	ı	ı	ı	ı	8.6	0.0)	ı	1	ı	ı		ı	ŧ	י וו	1 4 4	9 4	ה ה	1		1	I	ı	ı	1	ı	ı	1			
AUG.		5 / c	5.77	25.8	0.0	0.0	41.4	16.1		44.0	19.7	284.3	171.6																			101.1		7 47 2				-			0.00	0.70	30.8	ı	ı	ı	1	ı	0 7 1	2	C . L T
JULY		12°8	7.17	363.1	0.0	27.4	53.2	23.0	000	84.9	710.5	902.3	786.0	1	0.0		,	9.0	0.0	0.0	37.6	32.5	62.9	28.0	0.0	0.0			23.0	. c. c.		1,50	526.0	777				•	•	20.00	7000	000/	485.8	205.9	60.5	2.7	5.7	13.5			
JUNE		36.6	104.4	788.0	0.0	32.4	725.9	פינו	2000	1.7771	367.0	73.3	65.1	•	72 3	100	70.20	137.1	19.7	8.0	122.8	263.4	220.7	228.3	2.6		2.2	17.0	- 0	ο α	T . 0	1 1		ı	,	70		•		•		u. U	1	ı	ı	ı	ı	ı			
MAY	i														0	200		13.4	7.79	83.7	254.8	351.1	1	ı	0.0	2.7		10.0	0.00	0.0	1	1 1			1	2 2	,	•	•	260.5	0.000	607.3	i	ı	ı	ı	ı	ı			ı
APR.		ı	ı	ı	ı	ŧ	ı	ı		í	ı	ı	ı	1	c		•	0.00	79°T	59.4	67.8	8.06	ı	ı	0.0	8	16.0	110.0	0 4 2	104.5	0.551	0.1/1	7.00			,	•	0.0	1001	0.212		7.04	34.0	133.9	ı	16.5	1	41.7			
MAR.		11.2	ł	ı	2.7	3.0	α		1001	6.2	33.7	ı	ı	1	0 0	4 1	0.00	ית ית	71.7	24.3	27.0	20.2	ı	1	0	9		130.0	100	0.00	Z02.1	ı	i					23.0	17.0	23.3	74.0	70.4	ı	1	1	ı	ı	ı			
FEB.		13.9	1	1	0.0	5,9	ά.	10	13°0	15.0	14.9	1	ı		9 9		23.0	11.9	0.0	6.1	6.0	5.5	1													20.0	17.0	13.4	20.0	12.0	23.3	12.4	ı	ı	ı	ı	ı	ı			
JAN.		2.5	ı	0.0	0.0	12.6	4		2.0	ı	2.6	1	0.0	0.11	2	, ,	7.0	0.0	44.2	19.8	28.0	8.6	1	1	0	2.5	1.0		200	0.01	0.4	14.3	***	!	1 2	10.7	7 - 4	4.0	0.07	10.6	30°F	4.0	18.8	8.7	ı	6.5	1	12.3		*	'
N.		0.09	65.0	70.0	34.0	40.0	A F	200	0.00	55.0	0.09	65.0	70.0	80.0			0.00	40.0	45.0	20.0	55.0	0.09	65.0	70.0	25.0	30.0	0.00	0.0	0.04	0.0	0.00	200	0.00	000	0.00	20.00	20.00	30.0	0.0	0.04	40.0	50.0	55.0	0.09	65.0	70.0	75.0	80.0			
STATION		123.0	123.0	123.0	127.0	127.0	127	177	17/0	127.0	127.0	127.0	127.0	127 0	100	120.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	133.0	200	2000	122.0	122.0	133.0	133.0	133.0	122.0	122.0	1000	134.0	127.0	137.0	127.0	13/00	137.0	137.0	137.0	137.0	137.0	137.0	137.0	137.0			

TABLE 4. (cont.)

Vinciguerria lucetia (cont.)

NON SEP JOLY JUNE EE STATION

TABLE 4. (cont.)

				Α	incigue	Vinciguerria lucetia	ncetia	(cont.)					
STATION	J.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
157.0 25.	۰	6				,	ı	,	ı	ı	1	1	1
		.7	1	ı	ı	ı	ı	1	1	ı	ı	í	ı
0		8	ı	1	1	1	ı	ı	ı	1	ı	ı	ı
0		8.	1	ı	ı	ı	ł	ı	1	ı	ı	ı	1
0.		0.6	1	ı	1	ı	ı	ı	ı	ı	ı	ı	ı
		.3	1	i	ı	ı	ı	ı	ı	1	ı	ı	ı
0		. 2	ı	ı	ı	1	ı	ı	ı	i	ı	1	ı
0		7.	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı
0		6.0	ı	ı	ı	ı	ı	ı	t	ı	ı	ı	ı
157.0 80.0		59.3	1	ı	ı	ı	ı	1	ı	ı	ı	ı	ı
					0,1	Sternop	Sternoptychidae	a					
STATION	J.C	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 110	0.			1		3.1							1
			ı	1	ı	2.8	ŧ	1	ı	ı	,	ı	ı
		0	0	2.7	0	0	0.0	0.0	0.0	ı	0.0	0.0	0.0
83.0 70		0.0	1.7	: 1	0.0	0.0	0.0	0.0	0.0	ı	0.0		,
87.0 40		0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0
			0.0	1	3.0	0.0	0.0	0.0	0.0	ı	0.0	1	ı
٥.	. 0,		0.0	ı	3.0	0.0	0.0	0.0	0.0	ı	0.0	ı	ı
0	- 0.		1	ı	0.0	0.0	0.0	2.8	0.0	1 0	1 (1 0	1 9
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	200	0.0	000
	0.0	9.0	0.0	0.0	0.0	,,	n 0	•		•	•	•	•
90.0	. '		C. T	•	•	200				000	000	000	000
			10			. K.		0	0	0.0	0.0	0.0	0.0
90	00		0.0	0.0	0.0	2.8) -	0.0	0.0	0.0	0.0)	0.0
0	0.		1	1	1	5.8	ı	ı	1	0.0	ı	ı	1
	- 0.		ı	ı	ı	2.9	ı	ı	ı	0.0	ı	1	ı
	0.		1	1 (1 (2.8	1 (1 4	1 0	1 0	1 4	1 6	1 9
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	0.0	0.0	000	
		0.0	0.0	0.0	000	0.0	•		200		•	•	•
		0.0					•	•	,	•			
			, , ,	, ,						. 1	0.0	0 1	1
			10					0	0	ı	0.0	ı	1
97.0 50		0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	1	0.0	ı	1
		0.0	0.0	0.0	1	0.0	2.9	1	0.0	ı	0.0	ı	ı
		7.7	0.0	0.0	0.0	0.0	2.7	0.0	0.0	ı	0.0	1	1 1
97.0 65		-	1 0	1 1	, , ,			, c	000	1 1	2.9	1 1	1
97.0 90.0		0.0	0.0	ı	0.0	0.0	0.0	0.0	0.0	ı	, m	ı	ı
		0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	ı	0.0	ı	ı
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ı	5.5	ı	ı

TABLE 4. (cont.)

	DEC.	
	NOV.	
	OCT.	W000001 0 00000000 0 w0001 1 ww0000000000
	SEP.	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	AUG.	
ont.)	JULY	
dae (cc	JUNE	
Sternoptychidae (cont.	MAY	00000000000000000000000000000000000000
Stern	APR.	000000000000000000000000000000000000000
	MAR.	00 00 00 00 00 00 00 00 00 00 00 00 00
	FEB.	0000000 0000000000000000000000000000000
	JAN.	000000000000000000000000000000000000000
	STATION	100000 10000000 100000 100000 100000 100000 100000 100000 100000 1000000 100

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					2110	Chauttouns macount	macoan	7.7					
STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
53.0	55.0		 		1	1	,	1	1	1	8.0	ı	ı
23.0	60.0	ı	1	1	ı	ı	ı	1	ı	ı	2.9	ŀ	1
0.09	70.0	2.4	ı	1	0 " 0	0.0	i	0.0	ı	ı	2.2	ı	1
	80.0	0.0	ı	ı	0.0	5,3	ı	0.0	ı	ı	0.0	ı	ı
	85.0	ı	1	ı	ı	0.0	ı	3.0	ı	1	1	ı	ı
	0.06	0.0	ı	ı	0.0	0.0	ı	5.0	1	ı	2.5	ı	ı
	0.09	0.0	ı	ı	0.0	0.0	ı	0.0	ł	ı	2.5	ı	ı
	85.0	ı	1	ı	ı	0.0	ı	3.4	ı	ı	1	ı	1
	0.06	3.3	ı	1	2.8	0.0	ı	0.0	ı	ı	0.0	ı	ı
	55.0	0.0	ı	ł	0.0	0.0	ı	0.0	ı	I		ı	ı
	0.09	0.0	1	ı	0.0	0.0	ı	0.0	ı	ı	4.3	ı	ı
	70.0	0.0	1	ı	ı	2.7	ı	0.0	ı	I	0.0	1	ı
	85.0	ι	ı	ı	1	ı	1	3.4	ı	t	1	1	ı
	55.0	0.0	ı	I	0.0	0.0	1	3.0	ı	1	0.0	ı	ı
	70.0	0.0	1	ı	2.3	1	ł	0.0	ı	ı	0.0	ı	ı
	80.0	0.0	ı	ı	2.6	3.4	ı	0.0	ı	ı	0.0	ı	1
	75.0	1	ı	1	ı	3.5	ı	0.0	ı	ı	ı	ı	ı
	0.0	0.0	0.0	ı	0.0	0.0	ı	0.0	ı	ı	2.5	ı	ı
	65.0	1	1	ı	0.0	3.4	i	0.0	ı	ŧ	ı	1	ı
	70.0	0.0	3.2	ı	0.0	0.0	ı	0.0	ı	t	0.0	ı	1
	0.09	0.0	0.0	ı	0.0	0.0	0.0	0.0	2.5	ı	0 0	0.0	0.0
77.0	80.0	1	1	ı	0.0	0.0	3.7	0.0	ı	i	0.0	ı	ı
	85.0	1	ı	ı	ı	2.8	0.0	0.0	ı	1	ı	1	1
	90.0	ı	ı	ı	3.0	0.0	2.9	0.0	ı	ı	0.0	1 4	1 0
	55.0	0.0	0.0	ı	0.9	0.0	0.0	0.0	0.0	ı	0.0	0.0	0.0
	0.09	0.0	0.0	ı	0.0	0.0	0.0	0.0	0.0	I	0.0	2.2	0.0
	65.0	ı ·	1	í	0.0	0.0	0.0	m 0	1 9	ł	1 6	1 0	1 0
	70.0	0.0	0.0	ı	0.0	0.0	0.0	0.0	0.0	ı	7.0	0.0	0.0
	80.0	0.0	0.0	I	0.0	5.0	0.0	0.0	0.0	ı	0.0	1	1
	85.0	I	ı	ı	0.0	0.0	3.0	0.0	0.0	1	1	1 1	1
	10.0	ı	ı	ı	ı	7.0	ı	1	1	1 1	1 1		· 1
	20.02	1 0	1 9	ı	י ו	, o	ء ء ا	c 1 c	c		-	0	0.0
	00.00	0.0	0.1	1 1	7.0	0.0	7.0			1	•	•	
	75.0	ı	1	ı	° «)	ı	ı	ı	1
	85.0	1	ı	ı	3.0	0.0	3.0	0.0	ı	ł	ı	ı	ı
	0.06	0.0	0.0	ı	3.2	0.0	0.0	0.0	3.1	ı	0.0	ı	ı
	55.0	0.0	0.0	ı	0.0	0.0	0.0	0.0	0.0	ı	0.0	2.8	0.0
	65.0	1	1	ι	0.0	0.0	5.9	3.2	0.0	ι	ı	ı	I
	70.0	1	1.5	ı	0.0	0.0	0.0	0.0	0.0	ı	2.9	ı	ı
	75.0	1	ı	1	0.0	6.1	0.0	1	0.0	ł	1 0	ı	ı
	80.0	1 4	0.0	1 (0.0	2.8	0.0	0.0	0.0	1 9	0.0	1 0	1 0
0.06	50.0	0.0	0.0	0.0	0.0	2.0	0.0	1 0	2.0	0.0	0.0	0.0	•
	20.0		0.0	800	0.0	000	•			•	0		0
	75.0	1	• 1	•	0.0		0.0	0.0	3.5	0.0)		1
))		,					

TABLE 4. (cont.)

				Chaulic	Chauliodus macouni	couni	(cont.)					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0	1 1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
_	1))) 		1) -) - 	0.1	0 1	1 1	0 1
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0
	0.0	000	0.0	0.0	200	0.0	0.0	00	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	000	0.0	0.0	0.0	000	0 1	2.8	0 1)
	2.4	0.0	1	0.0	0.0	0.0	0.0	0.0	1	2.9	ı	ı
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ı	0. 0.	ı	ı
	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	1	0.0	ı	ı
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1 1	2.6	l I	1 1
				Idiac	Idiacanthus antrostomus	antros	tomus					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0 90.0		1	1					1		2.0		
0.09 0.09	0.0	ı	ı	0.0	0.0	ı	0.0	ı	ı	1.9	ı	ı
60.0	6.0	ı	ı	0.0	0.0	1	0.0	i	ı	0.0	ı	ı
0.00 0.00	•	1 1	1 1	1 0	•	1 1		1 1	1 1	, c	1 1	1 1
70.0 90.0		1	- 1			ı		1	1	0.0	1	l 1
80.0 57.0)))	6.4	ı))))) 	ı)))	1	1	1	1	ı
80.0 120.0	ı	ı	ı	ı	5.8	ı	ı	1	ı	1	ı	1
80.0 145.0	ı	1 0	ı	1 (5.8	1 9	1 4	1 4	ı	1	ı	ı
0.080.0	1	0.0	1	0.0	0.0		0.0	0.0	ı	0.0	ı	ı
90.0 45.0	0.0	000	0-0	000		0.0			0,0		0	. 6
90.0110.0)))))) 	2.9) 		0.0)))))))
90.0 120.0	ı	ı	ı	1	0.0	ı	ı	ı	2.5	ı	ı	ı
90.0 130.0	1 6	10	10	10	800	1 6	1 0	1 9	1 9	10	1 0	1 0
93.0 35.0					000			•			0.0	,
93.0 45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
93.0 55.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93.0 65.0	1 1	t I	ł	0.0	0.0	0.0	0.0	0.0	2.8	ı	ı	I
93.0 80.0	0.0	0,0	0,0		0.0	3.5	0.0	0.0	0.0	2 8	0,0	0.0
93.0 85.0	1	1		0.0	0.0	0.0	0.0	0.0	5.1)))))
93.0 90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	1 0	ı	0.0
100.0		•	1 0	•	000	0.0	0.0	0.0	1 1	w w w ⊂	1 1	1 1
100.0 50.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	1	0.0	,	1
100.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	ı	2.0	ı	ı
100.0 /0.0	0.0	0.0	ı	0.0	0.0	0.0	0.0	3.2	ı	0.0	ı	1

TABLE 4. (cont.)

NOV. DEC.	11,11		NOV. DEC.		0	0.0 0.0	1	1 1	NOV. D	NOOV.	NOV.	NOOV.	NON 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NOO.	NOOV.	NOOV.	NOOV.	NOW.
OCT.	2.8 0.0 0.0		OCT.	1 1 1	0.0	000	0.0880		OCT.	OCT.	OCT.	OCT.	0.0 0.0 0.0 0.0 0.0	OCT.	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	OCT. 00.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
SKP.	1111		SEP.	111	000	0.0	111		SEP.	SEP.	SEEP.	SEP	SEEP	- EES		SED	SEE	SEP
t.) AUG.	0.000		AUG.	111	0.0	0.0	0000		AUG.	AUG.	AUG.	AUG.	AUG.	Aug.	AUG.	AUG.	AUG. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	AUG. AUG. 0.0 0.0 0.0 0.0 AUG.
s (cont.)	2.7	scintillans	JOLY	111	0.0	000	0000		p.	•	• ! !	•	• ! !	• ! !	•!!	•	9. JULY 9.9 9.9 9.9 9.9 9.0 0.0 0.0 0.0	P. JULX 9.9 9.9 9.9 9.3 3.3 0.0 0.0 0.0
OStomu	0000		JUNE	111	0.0	0.0	0000	lus spl	lus sp	JUNE SP	JUNE SP	JUNE JUNE	JUNE JUNE	1us spp. JUNE JUN	M: :	7: : : : : : : : : : : : : : : : : : :	7	PI :
Idiacanthus antrostomus APR. MAY JUNE	0000	Aristostomias	MAY	3.1 2.9 2.9	0.0	800	0000	Bathophilus spp	athophi	MAY 0.0	MAX MAX 0.0 0.0 0.0 5.8	MAY 0.0 0.0 0.0 5.8	MAAY 0.0 0.0 0.0 5.8 0.0 0.0	######################################	MAX MAX 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 MAX	MAX MAX 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	######################################	MAX TOS COM MAX TOS COM TOS C
iacanth APR.	0000	Aristo	APR.	111	0.0	0.0	.000	B	APR.		. ! ! _	1 1	1 1	מ		1 1 2 2 1	APR. 10.0 0.0 0.0 0.0 10.0 Tac APR. 0.0 Stc	APR. APR. Tac APR. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 APR.
Id:	0.0		MAR.	111	2.6	2.6	000		MAR.	MAR.	MAR.	MAR.	MAR.	MAR.	MAR.	MAR	MAR. 0.0 0.0	MAR. MAR.
FEB.	0.0		FEB.	111	0.0	000	0001		FEB.	FEB.	FEB	FEB.	FEB.	FEB	FEB	FEB	FEB. 2.5 2.5 6.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	FEB. 1.0 0.0 0.0 0.0 FEB. FEB.
JAN.	0000		JAN.	1 1 1	1 1	000	000%		JAN.	JAN. 0.0	JAN. 0.0	JAN. 0.0 0.0 2.8	JAN. 0.0 0.0 2.8 0.0	JAN. 0.0 0.0 2.8 0.0 0.0	JAN. 2.8 2.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 JAN.	JAN. 1 2.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	JAN. JAN. JAN. 0.0 0.0 0.0 0.0 0.0 0.0	JAN. JAN. JAN. JAN. JAN.
STATION	100.0 90.0 103.0 60.0 103.0 90.0 117.0 80.0		STATION				103.0 50.0 103.0 60.0 103.0 80.0		STATION	6	6 7	161	STATION 60.0 90.0 67.0 75.0 80.0 120.0 100.0 70.0 117.0 60.0	161	16 7 16	161 7 161	18 7 181	

TABLE 4. (cont.)

DBC.	
NOV.	
ocī.	
SEP.	000000000000000000000000000000000000000
AUG.	100000000000000000000000000000000000000
JULY	 0000000 000000000000000000000000000
1 1	
APR. MAY JUNE	
APR.	00000w0u1u0000vu0wa4u0u0u00vu0uuuu0u0uuuu
MAR.	
FEB.	
JAN.	
N	77. 1
STATION	88833000000000000000000000000000000000

MAR. APR. MAY JUNE JULY AGC. SEP. OCT. NOV. DBS 3.2 12.2 7 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10	i			Scouras acrivence	4	Tanna	(conc.)					
14.1.1 12.7 10.0 14.1.1 12.7 10.0 11.3 10.0 10.0 10.0 10.0 10.0 10.0	JAN. FEB.		MAR.	APR.	MAY	JUNE	ישני	AUG.	SEP.	OCT.	NOV.	DEC.
142.7 142.1 15.7 16.9 11.3 10.0 11.3 10.0	3.0	i	0.0	0.0	0.0	0.0	0.0	0.0	,	0.0	,	1
12.2 14.1 15.7 16.0 16.0 17.3 18.7 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0	0.		0.0	2.7	0.0	0.0	0.0	0.0	1	0.0	,1	1
14.1 15.7 16.3	0	0	.7	12.2	0.0	0.0	0.0	0.0	0.0	0.0	ı	ı
15.7 16.9 10.1 2.6 10.0 1	0.00	nc	٥	14.1		0.0	•	× •	0.1	-	1 1	1 1
16.9 10.0		o m	200	15.7	0.0	0.0	0.0	0.0	ı	0.0	1	ı
11.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.7 0.0 3	m	2	6.9	0.0	0.0	0.0	0.0	1	0.0	ı	1
2.1 2.1 2.5 2.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	.0	0	0.	11.3	0.0	0.0	0.0	0.0	ı	0.0	1	ı
2.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0	0	0.	2.1	0.0	0.0	0.0	0.0	1	1	ı	ı
2.5.5 0.00	0.0	0	0.	0.0	0.0	2.5	0.0	0.0	1 4	0.0	t	1
2.6 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0	0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	ı	1
2.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		7	æ 0	9.0	0.0	0.0	9.0	0.0	1 1	0.0	1 1	1 1
2.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		Š	0.0	0.0	0.0		•	•			1	1
2.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	17.	•	> 0	9.0		•	•	•	1 1	0 1	1 1	1
2.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0	•	> 0	0.0			•	9 0	1 1	9		
2.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	٥.٥	١٥	>	•	•	•	•	υ c ν α	1	0 1	1	
2.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		· C	_	•					1	0.0	1	ı
2.7 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0		· 1	•				0.0	• 1	ı	0.0	1	ı
2.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0	0	0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	1	ı
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	17.3	0	_	2.7	0.0	0.0	0.0	0.0	1	0.0	ı	ı
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.	3.1		0.0	0.0	0.0	0.0	0.0	I	0.0	1	1
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	3.1	5.0	_	0.0	0.0	0.0	0.0	0.0	ı	0.0	ı	ı
2.7 3.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0	0	_	0.0	0.0	0.0	0.0	m (ı	1 9	1	1
2.7 3.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0	0.0		0.0		0.0	0.0	•	1 1	•	1 1	1 1
2.7 3.0 - 14.6 2.8 0.0 - 0.0 0.0 0.0 0.0 0.0 0.0	0.0	0 1		•	•	0.0			1	0 1	1	1
- 15.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0					9.0				1	0.0	1	ı
- 14.6 2.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0						0	0.0	0.0	0.0	0.0	1	ı
- 14.6 2.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0	0		1	5.9	0.0	0.0	0.0	ı	0.0	ı	ł
	0.0 0.0	0	_	1	14.6	2.8	0.0	0.0	ı	0.0	i	1
- 0.0 2.7 0.0 2.9 - 0.0 2.9 - 0.0 2.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0	0.0	_	1	0.0	0.0	5.6	0.0	ı	0.0	1	ı
	1	i		t	0.0	2.7	0.0	2.9	ı	1 0	ı	t
2.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0	1 0		ı	0.0		0.0	0.0	1 6	0.0	1 -	1
2.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0	,,	ם כ	1		ຕິດ	0.0	7.0	0.0		۱ ۱	1
2.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0	'nc		1 1		٠ د د		, , ,	1 1		· 1	1
- 2.7 - 5.5 - 5.5 - 6.0 - 7.0 -				1		, r.	0.0	0.0	1	2.8	1	١
2.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		·	,	1	2.7	0.0	2.9	0.0	1	1	1	1
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	2.9	ı		1	5.5	2.8	0.0	0.0	1	0.0	ı	ı
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		0	0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	ı	ŀ
1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0,1		0 4		000	000	0.0	0.0	000	000	1 1	1 1
7 18.2 0.0 0.0 0.0 0.0 0.0 -			۰.		0.0	0.0	0.0	0.0)) 	0.0	ı	1
7 18.2 0.0 0.0 0.0	3	3.(_	0.0	0.0	0.0	0.0	1.0	1	0.0	ı	ı
	0.0	œ	. 7	18.2	0.0	0.0	0.0	0.0	1	0.0	ı	1

TABLE 4. (cont.)

	DEC.	11111111111111111111	DEC.	11111	DEC.	11111111111
	NOV.		NOV.	11111	NOV.	1111111111
	OCT.	00000080000111111	OCT.	20.0	OCT.	00000 1 00000 00000 00000
	SEP.	0	SEP.	11111	SEP.	11111111111
	AUG.	100000000000000000000000000000000000000	AUG.	3.1	AUG.	1111111111
(cont.)	JULY	800808000000000000000000000000000000000	JULY	800.00	JULY	1000wwww000
	JUNE	0.0 0.0 0.0 0.0 0.0 	JUNE	0.0 0.0 0.0 0.0 Paralepididae	JUNE	11111111111
Stomias atriventer	MAY	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	MAY	0.0 0.0 - - - Parale	MAY	000000000000000000000000000000000000000
Stomias	APR.		APR.	0.01	APR.	0.00 0.00 0.00 0.00 4.00 0.00
	MAR.		MAR.	11111	MAR.	1111111111
	FEB.	0000 00	FEB.	11111	FEB.	1111111111
	JAN.	1000700 10000 100000	JAN.	00 00	JAN.	111800000000000000000000000000000000000
	STATION	333.0 333.0 333.0 333.0 333.0 333.0 333.0 333.0 45.0 333.0 45.0 337.0 50	STATION	107.0 90.0 123.0 70.0 133.0 75.0 147.0 45.0 150.0 30.0	STATION	43.0 550.0 60.0 60.0 63.0 63.0 63.0 63.0 63.0 6

	DEC.	1	1 1	1	0.0	ı	1 4	0 1		1	1	0.0	0.0	ı	ı	L	0.0	۱ ۱	1	ı	2.5	1	0.0	1 6	0 1	0.0	1 4	000	0.0	ı	0.0	1 6)))	0.0	1	1 1	1 1
	NOV.	1,	1	ı	0.0	1	1 9	0.0		t	t	0.0	0.0	ł	1	1	0.0		ŧ	ı	0		0.0	1 9	o 1	ı	1 9	0.0	0.0	1	0.0	10	0.1	1	1	1 1	1 1
 	OCT.	2.9	9 1	ı	2.6	0.0	1 6	۰. د د د د د د د د د د د د د د د د د د د	0 1	1	1	0.0	0.0	200	1	0.0	0.0	0.1	2.5	1	0.0	• 1	0.0	1 9	0.1	0.0	1 4	0.0	000		3.3	1 6	0.0	1	2.6	0.0	0.0
	SEP.	ı	1	1	1	ı	ı	1 1	1	1	ı	!	1 1	· !	ı	ı	ı	1 1	1	ł	1 0	0.0	8.0	11.1		0.0	0.0	0.0	0.0	33.1	5.2	0.0		0.0	ı	1 1	1 1
	AUG.	ı	1 1	1	2.5	ı	1 0	000		• 1	ı	0.0	000	000		0.0	0.0	•	0.0	0.0	000	0	0.0	0.0	•	0.9	1 4	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	4.0
nt.)	JULY	0.0		0.0	0.0	0.0	0.0	0.0	000		1	0.0	2.5		6.1	0.0	0.0	7.7	0.0	0.0	0.0	0	0.0	0.0	ກັດ	0.0	1 9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	000
dae (co	JUNE	ı	1 1	1	0.0	0.0	7.0	000	•	• 1	1	0.0	0.0		0.0	0.0	0.0	•	0.0	0.0	0.0	0.0	0.0	0.0	6.2	1		0.0	20.00	0.0	0.0	0.0	0.0	0.0	0.0	7.7	000
Paralepididae (cont.)	MAY	0.0		0.9	0.0	3.2	0.0	000	000	6.1	2.9	0.0	0.0	000	0.0	0.0	0.0	0.0	2.0	3.0	0°0	3.5	0.0	۳, د.	ء. ء د	0.0	2.9	2.7	0.0	0.0	0.0	0.0	7.7	0.0	0.0	0.0	000
Para	APR.	0.0	0.0) • I	0.0	3.1	1 (0.0	9.0)))	ł	0.0	0.0	0.0	3.0	3.2	0.0		14.8	0.0	2°8 0°8	. 1	0.0	14.1	000	2.8	1	0.0		2.8	5.6	2.0	0.0	0.0	0.0	0.0	0.0
	MAR.	ı	1 1	1	1	ı	ı	1 1	1 1	1	1	ı	1 1	1 1	1	ı	1	1 1	ı	ı	1 0	2.3	0.0	10	0.0	2.2	1	0.0	200	i	2.3	1 0	0.0	2.3	0.0	0.0	1 1
	FEB.	1 4	3.T	1	0.0	ı	1 (0.0	7°7		1	2.8	0.0	0.0		0.0	1.5	۱ ۵۰	0.0	1	000	• 1	0.0	10	0.0	0.0	1 -	0.0	000) 	ı	1 0	0.0	0.0	0.0	0.0	2 . 3
	JAN.	0.0	0.1	1	0.0	ł	i e	2.0	0.1		ı	0.0	0.0	2 8	1	0.0	ı	1 1	- 1	ı	1 1	1	ı	ı	1 1	ì	1	0.0	0.0) •	0.0	1 (0.0	0.0	0.0	0.0	0.0
	Z	90.06	000	85.0	60.09	80.0	85.0	0.09	85.0	110.0	120.0	51.0	60.0	0.0	85.0	0.06	60.0	75.0	80.0	85.0	0.06	65.0	70.0	75.0	85.0	0.06	120.0	40.0	60.0	65.0	70.0	75.0	0.08	0.06	45.0	0.09	75.0
	STATION	70.0	73.0	73.0	77.0	77.0	77.0	80.0	000	80.0	80.0	83.0	83.0	200	83.0	83.0	87.0	0.70	87.0	87.0	87.0	90.0	90.0	90.0	0.00	90.06	0.06	93.0	93.0	93.0	93.0	93.0	93.0	93.0	97.0	97.0	97.0

TABLE 4. (cont.)

	DEC.	ı	1	•	1	1	ı	ı	ı	ł		1 1	ı		1				ı	ı	ı	ı	ı	ı	1 1	. 1	1	ı	ı	ı	1	1 1	1	ı	ı	ı	ı			1	ı	ı
	NOV.	1		1	ı	1	ı	ı	ı		1	ı	ı	ı		1 1	۱ ا			1	ı	ı	1	1	1 1	1	1	ı	1	1	ı	1 1	ı	1	ı	1	ı	ı	1		1	1
	ocr.	0.0	0.0		0.0	1	0.0	0.0	0.0	1 0	0.0	1 6	0.0	•	0.0	1 1		•	•	• 1	ı	0.0	i	0.0	0.0	10	0.0	3.1	1	0.0	0.0	•		2.8	0.0	0.0	0.0	2.8	0.0	ح ا د	0.0	0.0
	SEP.	1	1	۱ ۱	1	ı	ı	1	ı	ı	1	ı	ı	ı	ı	1	1	1	1	1	ı	ı	ı	0.0	ı	1 1	1	1	ı	ı	t	1 (1	ı	ı		0.0	0.0	i	1 1	ı	ı
	AUG.	0.0	0.0	•		0.0	0.0	0.0	0.0	3°0	0.0	5.6	0.0	0.0	0.0	0.0	,,	•		9.0	0.0	0.0	ı	0.0	ທີ່ເ	•	3.0		0.0	0.0	1 (2.9	c		0.0	2.9	0.0	0.0	0.0	0.0	10.0	0.0
nt.)	JULY	0.0	0.0	•		0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0,0	9.7	7°°C	9.0		0	2.8	2.7	7.8	0.0	ຜູ້ເ		000	0.0	0.0	2.9	2.6	000	•		2.9	0.0	0.0	0.0	0.0	2.0		0.0
lae (co	JUNE	0.0	0.0	•		3.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			•	0.0	2.8	0.0	2.8	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	7°C		0.0	0.0	3.1	0.0	0.0	000	000	0.0
Paralepididae (cont.)	MAY	0.0	0.0	•	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	000	0.0	0.0	•	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	5.6	v c		0.0	0.0	0.0	0.0	0.0	1 0) 	0.0
Para	APR.	0.0	0.0	7.0		200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0	0.0	0.0	0.0	0.0	0.0		0	0.0	0.0	0.0	0.0	7 - 7	. 1	ı	ı	0.0	0.0	8.1	10	٥,٠	2.7
	MAR.	0.0	2.4		•	•	1	0.0	0.0	1	0.0	1 4	0.0	0.0	0.0	0.0	ı	1 0	0.0	•	٠ ا ا	0.0	1	0.0	0.0	0.0	•	• 1	0.0	0.0	1	0.0	0.0			•	0.0	0.0	0.0	1 0	•	0.0
	FEB.	0.0	0.0	0.0	,,	? 1	0.0	2.6	2.5	1	0.0	ı	ı	0.0	2.4	0.0	ı	1 (3.1	0.0	• 1	0.0	1	0.0	0.0	0.0	0.1	ı	0.0	1	ŀ	0.0	0.0)))	0.0	0.0	0.0	1 0	•	0.0
	JAN.	7.4	0.0	0.0	2.3	1	2.7	0.0	0.0	1	2.9	ı	2.7	0.0	0.0	0.0	1 4	0.0	0.0	0.0	1	0.0	1	1	0.0	2.1	•)))	0.0		0.0	0.0	4		0.0			0.0	1 9	•	0.0
	7	29.0	35.0	45.0	50.0	75.0	0.08	40.0	60.0	65.0	70.0	75.0	80.0	40.0	45.0	55.0	85.0	0.06	50.0	55.0	75.0	80.0	85.0	40.0	45.0	55.0	0.00	0.06	65.0	80.0	0.06	80.0	90.0	0.0	0.09	70.0	40.0	45.0	50.0	65.0	20.0	40.0
	STATION	100.0	100.0	100.0	100.0		0.00	103.0	103.0	103.0	103.0	103.0	103.0	107.0	107.0	107.0	107.0	107.0	110.0	110.0	110.0	110.0	110.0	113.0	113.0	113.0	113.0	113.0	117.0	117.0	117.0	120.0	120.0	123.0	127.0	127.0	130.0	130.0	130.0	130.0	133.0	137.0

TABLE 4. (cont.)

					Par	Paralepididae (cont.)	dae (co	nt.)					
STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0	55.0	0.0		,	0.0		1	7.6	0.0	ı	0.0	I.	t
143.0	30.0	0.0	ı	ı	0.0	1	ı	ı	1.3	ı	1	1	ı
143.0	50.0	5.2	ı	1	0.0	ı	ı	1	0.0	ı	ı	ı	ı
143.0	70.0	1	ı	ı	1 0	ı	1	ı	9.0	ı	ı	ı	ı
147.0	30.0	0.0	ı	ı	0.0	i	ı	ı	0.4	ł	ı	ı	ı
147.0	35.0	0.0	ı	1	0.0	ı	•	ı	ຕຸຕ	ı	ı	ı	ı
147.0	50.0	0.0	ı	1	2.9	ı	t	ı	0.0	ı	1	1	ı
147.0	0.09	0.0	ı	ı	2.9	1	ı	ı	0.0	ł	ı	ı	i
150.0	25.0	0.0	ı	ı	ı	ı	ı	ı	1.9	ı	ı	ı	ı
150.0	45.0	0.0	ı	ı	1	i	ı	ı	4.8	ı	ı	ı	ı
153.0	16.0	0.0	ı	ı	ı	ı	ı	ı	1.7	ı	1	ı	ı
153.0	25.0	0.0	ı	ı	ı	1	ı	ı	1.9	ı	ı	1	ı
153.0	70.0	2.9	1	í	1	1	ı	ı	ı	1	ı	1	1
157.0	10.0	8.9	ı	ı	ı	ì	1	ı	ı	ı	ı	ı	ı
157.0	15.0	3.2	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	1
157.0	80.0	5.6	ı	ı	ı	ı	ı	ı	ı	ı	1	ı	ı
					Sc	Scopelosaurus spp.	urus sp	.do					
STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
	0.06				1	1		ı	ı	ı	2.0	1	1
60.09	80.0	0.0	ı	1	0.0	5.3	ı	0.0	1	ı	0.0	ł	!
	70.0	0.0	0.0	1	0.0	3.0	ı	0.0	ı	ı	0.0	1	ı
	0.09	0.0	0.0	ı	0.0	0.0	3.2	0.0	0.0	ı	0.0	0.0	0.0
	80.0	1	ı	ı	0.0	9,5	0.0	0.0	ı	ı	0.0	I	1
	85.0	ı	ı	ı	ı	2.8	0.0	0.0	ı	1	t I		1
	0.01	1 1	1 1	1 1	1 1	3°1	1 1	1 1	! !	1 1	l	1	ı ı
	0.02	ı	i	1	ı	• •	1	1 1			. 1	1	ı
	A50.0	1	i 1	۱ ۱	ı ı	000	ı	ı	ı	1	1	ı	1
	0.08	0	0	ı	0	. 4	0	0	0	1	0.0	ı	1
	85.0) 	ì	ı	3.0	0.0	0.0	0.0	0.0	1	1	ı	ı
	0.06	ı	0.0	1	0.0	5.9	0.0	0.0	0.0	i	0.0	1	1 -
	70.0	ı	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
0.06	75.0	0	0	0.0	0.0	1.0	0.0	000	3.0	0.0	0.0	0.0	0.0
)	Scopela	Scopelarchidae						
						3000							
STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	ocr.	NOV.	DEC.
60.0 77.0 80.0 80.0	80.0 55.0 80.0 100.0	0000	3.2	1 1 1 1	0.00	0.0	0.001	2.8 0.0 0.0	0.00	1 1 1 1	00001	0.0	0.0

TABLE 4. (cont.)

	DEC.	
	NOV.	0.0000000000000000000000000000000000000
	ocr.	
	SKP.	00 000000 00000000000000000000000000000
	AUG.	
nt.)	JULY	100010000000000000000000000000000000000
dae (cc	JUNE	
Scopelarchidae (cont.)	MAY	
Scop	APR.	
	MAR.	
	FEB.	
	JAN.	
	N.	130 130 130 130 130 130 130 130
	STATION	883.0 883.0 887.0 887.0 897.0 993.0 903.0 903.0 903.0 903.0 903.0 903.0 903.0 903.0 903.0 903.0

TABLE 4. (cont.)

					Scop	Scopelarchidae (cont.)	dae (co	ont.)					
STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
3.0	75.0	1 0		1 0	0.0	0.0	0.0	3.2	6.2	1	10	E'	1
113.0	35.0	0.1	1 1	0	0 1	0.1	o .	ף ה) 	2.8	۰ ۱	1 1	1
	40.0	ı	ı	ı	ı	ı	ı	1	1	2.3	1	1	ŧ
117.0	55.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ı	0.0	ı	ı
	75.0	1 6	1 1	10	0.0	000	000	4 v	0.0	1 1	10		1 1
	20.00	0.1	1 1	• •				2.7	• 1	1	• 1	ı	ı
	0.06	0.0	1	1	0.0	0.0	0.0	0.0	1	ı	2.7	1	ı
	55.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	ı	ı
	70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ŧ	2.7	ı	ı
	75.0	1 6	1 6	1 0	0.0	1 6	000	ກຸດ	•		, ,	1 1	1 1
	0.00	0.0		•	•			0.0) - 	1	0.0	1	1
	20.00	9 1			• 1	0.0	0.0		0.0	1	0	1	ı
	45.0	0.0	0	0.0	1	0.0	2.6	0.0	0.0	0.0	0.0	1	ı
	55.0)	0.0	0.0	ł	0.0	0.0	2.8	0.0	1	0.0	1	ı
	0.09	0.0	0.0	0.0	ı	2.6	0.0	5.8	0.0	ı	0.0	ı	ı
	65.0	1	ı	1	ı	0.0	0.0	0.0	ص س د	1	1 0	ı	ı
	70.0	0.0	10	1 4	1 4	0.0	0.0	0.0	7.0	1 0	0.0	ı ı	1 1
	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	•	Z.3	0 1	1 1	1 1
	50.0	0	c c	c	-	0		8		1	0.0	1	1
	80.0	2,5)))		0.0))))))	0.0))))	ł)	ı	1
	30.0	2.8	ı	1	0.0	ı	1	ı	0.0	ı	ı	ı	ı
	50.0	0.0	ı	1	ı	ı	ı	ı	1.1	ı	ı	ı	i
	25.0	0.0	ı	ı	ı	ı	ı	ı	1.9	ı	ı	ı	ı
	30.0	2.5	1 1	i i	1 1	1 1	1 (1 1	1 1		1 1	1 1	1 1
	0.0/	1.0	l	l	l	ı							
						Mycto	Myctophidae						1
STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
	55.0										2.9	1	ı
	80.0	1	I	ı	1 1	ı	١	2.9	ı	ı	0.0	ı	ı
	52.0	0.0	1 0	ı	0.0	1 (ı		ı	1	•	1 1	1 1
	0.07	0.0	0.0	1 1	•	, , ,	1 1	00		łI		1 1	1
	0.06	1	ı	1	0.0	0.0	1	0.0	ı	ı	2.3	ı	1
	70.0	0.0	2.5	ı	0.0	0.0	0.0	0.0	ı	ı	0.0	0.0	0.0
77.0	85.0	1 0	0	1 1	0	0.0	000	3.2	0.0	il	0.0	0.0	0.0
	00.00	· • I)))	ı) ; ;	2.9			,	1	1	ı	ı
	10.0	ı	ı	1	ı	3.1	ı	ı	ı	ı	ı	ı	1
	20.0	ı	ı	ı	I	2.9	1	ł	ı	ı	ı	ı	I

TABLE 4. (cont.)

883.0 883.0 883.0 890.0	000000000000000000000000000000000000000	000000 100000	2 9					1		-
75000000000000000000000000000000000000	0000 v 00000	00000 1 00000	E + 3					1		
28.00 28.00 28.00 28.00 28.00 45.00 65	000 00000	00000 1 00000	0.0	0.0	0.0	0.0	ı	0.0	1	ı
750.0 750.0 750.0 750.0 750.0 750.0 750.0 750.0 850.0 850.0 850.0 850.0 850.0 860.0 87	00 00000	0000170000	0.0		0.0	0.0	1 4	0.0	1 0	1 4
7500 1800 1800 1800 1800 1800 1900	. w 00000	000 1 70000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	000
145.00 455.00 455.00 455.00 100.00	v 00000	00007	0.6	•	000			0 1	7.0	
288.00 450.00 655.00		, , , o o o o o o	10	000	000	000	000	0.0	0.0	0.0
286.0 550.0 655.0 655.0 1100.0 11	00000	0.00000	2.8)))))))
255.00 255.00	0000	0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
255.0 25	000	000	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0
550.0 655.0 100.0 10	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0
55.0 755.0 755.0 110.0 110.0 100	0.	0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0	0.0
755.0 1100.0 1100.0 1100.0 135.0 605.0 605.0 605.0 605.0 605.0 755		•	0.0	0.0	0.0	0.0	2.8		0.0	0.0
75.0 1100.0 1000.0 1000.0		0.0	2.9	0.0	0.0	0.0	2.8	ı	ı	ì
885.0 100.0 10	1	0.0	3.0	0.0	0.0	0.0	0.0	ı	ı	1
985.0 100.0 10	.0 5.3	0.0	0.0	0.0	3,4	0.0	0.0	0.0	0.0	0.0
110.0 55.0 60.0		0.0	3.1	0.0	0.0	6.1	0.0	1	1	ı
355.0 605.0	0			0	0	0	0.0	1	1	0.0
85000000000000000000000000000000000000))))	1))) ())	2.7	ı	ı	1
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0 0	0.0	2.8	0.0	0.0	0.0		0.0	ı	ı
8 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0)) 	0	2.9		0.0	1	3.0	ı	ı
855.00 855.00	22	0.0	0.0	0.0	0.0	0.0	ı	0.0	ı	1
555.00 555.00 555.00 555.00 550.00	9	0.0	0.0	3.2	0.0	0.0	ı	0.0	ı	ı
450.0 75		0.0	2.8	7.0	0.0	0.0	ı	1	ı	ı
45.0 55.0 75.0 75.0 90.0 830.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	ı	2.8	ı	ı
55.0 75.0 75.0 990.0 30.0 50.0 60.0 60.0 60.0 60.0 60.0 60.0 6	4.	0.0	0.0	0.0	0.0	0.0	ı	0.0	ı	1
75.0 30.0 30.0 50.0 50.0 60.0 60.0 60.0 60.0		0.0	0.0	0.0	0.0	0.0	ı	0.0	ı	1
75.0 90.0 90.0 45.0 50.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0	0.0	0.0	0.0	0.0	6.4	1	0.0	ı	1
30.0 0.0 0.0 1 45.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		0.0	0.0	0.0	0.0	6.3	ı	1	1	ı
30.0 45.0 50.0	- 7	0.0	0.0	0.0	0.0	0.0	ı	4.7	ı	ı
45.0 0.0 0 50.0 0.0 0		0,0	0.0	1.7	1	0.0	ı	0.0	1	ı
50.0 0.0 0	0	0.0	3,1	2.8	0.0	8.0	ı	0.0	1	ı
	0	0.0	0.0	8.2	0.0	0.0	ı	0.0	ŀ	i
55.0 0.0 2	.5	0.0	0.0	0.0	0.0	9.1	1	0.0	ŧ	ı
0 0 0 0	0	0.0	0.0	2.8	0.0	0.9	ı	0.0	1	ı
80.0 2.7 -	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	ı	1
85.0		0.0	0.0	0.0	0.0	3.2	ı	1	1	ı
0.06	1	0.0	0.0	0.0	0.0	3,3	1	0.0	ı	1
32.0 5.4 0	0.	0.0	2.8	2.8	2.8	0.0	ı	0.0	ı	ı
35.0 0.0 0	0.	0.0	3.0	0.0	0.0	0.0	ı	0.0	ı	1
40.0 0.0 0	0.	0.0	0.0	0.0	0.0	3.0	1	0.0	ı	ι
45.0 0.0 0	0.0	0.0	0.0	0.0	0.0	26.2	ı	0.0	1 1	1 !
0.0	0.0	0.0	•	0.0	0.0	0.0			۱ ۱	1 1
0.0			•	•	,,	•	1	• 1	ı ı	1
		•	•		, ,	•	1	ď	1	1

DEC.	
NOV.	111111111111111111111111111111111111111
OCT.	11000000 0 0 000000 0 0 00000 0 0 00000 0
SEP.	
AUG.	
JULY	
JUNE	
MAY JUNE J	00000mm00mm0002200mm00mm100000000000000
APR.	
MAR.	
FEB.	
JAN.	
z	788884440000000000000000000000000000000
STATION	000000000000000000000000000000000000000

TABLE 4. (cont.)

	DEC.		
	NOV.		
	OCT.		
	SEP.	000 01 00 0 00 00 00 00 00 00 00 00 00 0	
	AUG.	#0 00000000000000000000000000000000000	•
t.)	JULY	000000000400000000000000000000000000000	
Myctophidae (cont.)	JUNE	010780088000000000000000000000000000000	ı
tophid	MAY	0.00.00.00.00.00.00.00.00.00.00.00.00.0	ı
Myc	APR.	111111111111111100000100000000000000000	•
	MAR.	000000000000000000000000000000000000000	l
	FEB.	40w00010000w110000v100v00111w000011111111	ı
	JAN.		7.7
	2	K448080644808060844808060884808060984898989898989898989898989898989898989	0.07
	STATION	1233.0 1223.0 1223.0 1223.0 1223.0 1223.0 1227.0 1227.0 1227.0 1227.0 1227.0 1227.0 1233.0 1333.0 1333.0 1333.0 1337.0 1337.0 1337.0 1337.0 1337.0 1337.0 1337.0 1337.0 1337.0	7.1.0

TABLE 4. (cont.)

SEC. NOV SEP 0.400000000111180 JOLY 800000 Ceratoscopelus townsendi Myctophidae (cont.) 111101111000000000000111111000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 MAY APR. MAR E 1 1 1 1 1 1 1 1 1 1 1 1 1 1 000 JAN 85.0 90.0 90.0 90.0 90.0 90.0 1100.0 1100.0 120.0 STATION

TABLE 4. (cont.)

, DBC.	0.0				0.0	3.0	ı	ı	1	1	1	1	1	1	1	1	ı	1	1	ı	1	1	1	1	ı	ı		1	ı	ı	ı	1 1	1	1	1	1	1
NOV.	0.0	-			ı	•	1	1	1	1				1	1	1	1	-	١ ١			1	1 1	1	1	ı 	1		•	1	1	l !	1	1	1	1	1
SCI.	0.0	ייי	20.00		1			7.7	2.8	2.9	1 0	0.1	101	0.0	6.1	2.9	1	0.0	0.0	1	11.8	2.7	90	0	2.7	2.8	1 4	פי	0.0	1	9.0	0.0			0.0	1	6
SEP.	0.0	o r	0	2.6	2.8	11.2	2.7	ı	ı	1	1	1 1	ı ı	1	ı	ı	ı	ı	1	1	ı	1	1 1	ı	1	1	ı	1 1	ı	1	ı	1 1	1	ı	ı	ı	1
AUG.	3.0	•	0	0.0	25.8	ı		0.0	0.0	0.0	90		, K	0	3.1	9.6	3.2	w. 0,0	0.0	12.6	34.5	0.0	90	30.9	45.3	41.9	36.0	20.7	12.9	12.6	23.0	000		9	10.0	0.0	3.2
JOLY	0.0	•	. E	6.8	0.0	ı	1	0.0	0.0	0.0	0.0	0.0	20.0	0	2.5	0.0	ı	0.0	0.0	0.0	0.0	ı	1 0	0	0.0	0.0	0.0		0.0	0.0	13.6	0.0	•	0.0	0.0	0.0	0
JUNE	0.0	0.0		3.5	3.8	1	1	0.0	0.0	0.0	9.1	200	•		0.0	0.0	0.0	0.0	10.0	9.6	0.0	0.0	0.0	11.4	11.3	0.0	8 c		0.0	0.0	0.0	0.0	•		0.0	0.0	0
MAY	0.0	0.0		3.5	6.2	ı	1	0.0											000																		
APR.	0.0	•	000	0.0	2.9	ı	ı	0.0	0.0	2.8	2.7	0.0	, v	•	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	000	0.0	0.0	0.0	2.0	0.0	2.3	5.6	0.0	•	۵ د د	18.0	10.2	נונ
MAR.	3.1	1 0	, r.) 1	2.3	1	ı	0.0	0.0	ı	ı	ı	1 1	10 4	0.0	0.0	1	ı	1 1	1	ı	0.0	0.0	0.0	2.4	0.0	1 6	2.2	2.9	1	1 9	0.0	•	•	0	0.0	ر ب
FEB.	0.0	1 1	2 7	• 1	12.0	ı	1	0.0	0.0	5.6	1 0	0.0	1 6		000	0.0	1	0.0	2.6	1	0.0	0.0	0.0	0.0	0.0	0.0	1 0) 	ł	ı	1	0.0		•	4	0.0	2.4
JAN.	0.0	1 0	•	٥	5.4	1	1	0.0	0.0	0.0	1 4	0.0	1 1	. 1	ı	0.0	1	0.0	1 0	• 1	0.0	0.0	0.0	0.0	0.0	0.0	1 0	0.0	0.0	1	0.0	0.0		•	0.0	0.0	_
NO	0.09				0.06			45.					20.0			60.09	65.0	70.0	75.0	85.0	0.06	30.0	40.0	10.0	55.0	0.09											
STATION	93.0	93.0	0.00	0.0	93.0	93.0	93.0	97.0	97.0	97.0	97.0	97.0	97.0	0.00	0.00	100.0	100.0	100.0	100.0	100.0	100.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	107.0	107.0	107.0	107.0	107.0	107 0

TABLE 4. (cont.)

DEC.	1	ı	1	ı	ı	ŧ	ı	ı	ı	ı	ı	ı	1	1	ı	ı	ı	1	ı	1	1	ı	ı	ı	1	1	1	ı	t	ı	ı	1		ı	ı	ı	ı	ı	ı	1	1	1	ı	ı	ı
NOV.	1	'n	ł	ı	1	ı	1	ı	ŀ	ı	ı	ı	ı	1	ı	1	1	ı	ı	ı	ı	ı	ı	1	ı	ı	ı	ı	ŀ	ı	ı	1	1	ı	ı	1	,	ı	1	ı	ı	ı	ı	ı	I
OCT.	12.1	ı	66.7	0.0	0.0	2.5	0.0	0.0	0.0	0.0	ı	19.8	ı	0.0	ı	8.9	0.0	0.0	0.0	0.0	0.0	0.0	1	2.7	1 9	12.1	ı	9.2	ı	0.0	0.0	•		•	١	0		9	ה ה	5.4	0.0	0.0	0.0	0.0	ı
SEP.	1	ı	1	0.0	0.0	0.0	ı	ı	ı	ı	1	ı	ı	ı		ı	2.5	0.0	1	ı	ı	i	ı	1	ı	ı	ı	1	2.3	0.0	0.0	ı	ı	1	1	1	ŧ		ı	ı	0.0	1	i	ı	I
AUG.	33.4	35.8	9.1	6.6	0.0	0.0	0.0	0.0	14.9	62.9	25.3	18.9	9.3	3.2	ı	1	32.3	38.5	3.5	17.6	12.2	16.3	18.1	152.8	52.5	32.1	ı	ı	ı	3.0	8.7	4.61	000	,		, ,	ה	1 9 6	0 · 1	1	0.0	2.7	0.0	0.0	0.0
JULY A	0.0	0.0	2.6	0.0	2.9	0.0	0.0	0.0	0.0	2.7	0.0	0.0	11.1	205.5	2.6	2.4	0.0	23.6	2.8	0.0	0.0	0.0	3.0	0.0	278.1	128.1	30.0	0.0	1	0.0	0.0	0.0	0.0	•	•	•	•	90	000	10.5	0	0.0	0.0	0.0	0.0
JUNE	8.0	5.7	20.1	0.0	0.0	2.9	0.0	0.0	2.9	2.6	0.0	0.0	5.4	2.8	2.8	2.9	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	2.7	2.9	0.6	5.8	1	0.0	0.0	0.0	0,0	1.0	•	, c		•	•			2.8	11.2	22.1	0.9
. APR. MAY JUNE	0.0	8.9	9.5	0.0	2.7	2.7	18.8	18.2	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	0.0	0.0	0.0	3.4	0.0	0.0	6.5	0.0	0.0	0.0	0.0	0.0	ı	0.0	0.0	0.0	٠ م.	0.0	•	•	•	•	•			0.0	0.0	0.0	0.0
APR.	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.4	0.0	0.0	0.0	ı	0.0	0.0	5.1	5.2	0.0	2.3	2.1	0.0	12.9	4.5	0.0	0.0	ı	0.0	0.0	0.0	0.0	1.7	0.7	T. 0. C	0.7	9.0	•	9			2.8	8.6	10.2
MAR.	0.0	1	ı	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	1	0.0	,	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ı	0.0	ı	1	1	0.0	0.0	0.0	0.0	•	,,	0.0	4.0	1 0	0.0	1 1	0		0.0	0.0	0.0
FEB.		1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	i	11.8	1	8.1	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	ı	i	1	ı	1	0.0	0.0	0.0	0.0	0,	10.1	•	* · 0	ı		1	0		0.0	0.0	0.0
JAN.	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	1	0.0	1	4.1	0.0)	0.0	0.0	2.1	0.0	ı	0.0	ı	15.4	1	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	1 6	0.0	1 4	0.0	0			0.0	0.0	ı
-	80.0	85.0	90.0	33.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	0.06	35.0	40.0	45.0	50.0	55.0	0.09	65.0	70.0	75.0	80.0	85.0	90.0	40.0	30.0	35.0	45.0	50.0	55.0	0.00	2000	70.0	0.00	80.0	0.00	200	50.0	55.0	0.09	65.0
STATION	0.701	107.0	107.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	115.0	117.0	7	117.0	117.0	117.0	117.0	117.0	117.0	117.0	11/.0	117.0	118.0	120.0	120.0	120.0	120.0

TABLE 4. (cont.)

	DEC.	
	NOV.	
	OCT.	10000 100000 10000 100000 100000 100000 100000 100000 100000
	SEP.	111110111110111110000111111111111111111
t.)	AUG.	0.04.1 1.00.00
i (cont.)	JULY	
wnsend	JUNE	80007770300 98011300 170000 11111111111111111111111111
Ceratoscopelus townsendi	MAY	23 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
atoscol	APR.	00000 00000 00000 00000 00000 00000 0000
Cer	MAR.	
	FEB.	0 0 0000 0000 00000 000
	JAN.	0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Z	0.000000000000000000000000000000000000
	STATION	12200000000000000000000000000000000000

TABLE 4. (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JOLY	AUG.	SEP.	OCII.	MOV.	DBC.
0 27	40.0	0.0	1	1	2.6	ě	ı	1	0.0	1	ı	ı	1
	45.0	0.0	ı	1	0.0	ı	1	ı	9.9	ı	ı	ł	ł
0	50.0	0.0	ı	ı	0.0	ı	ı	ı	1.4	ı	1	ı	ı
0	0.09	0.0	1	ı	0.0	ı	ı	ı	3,9	ı	ı	ı	ı
	70.0	1	ı	ı	ı	•	ı	1	14.3	ı	ı	•	1
_	45.0	0.0	ı	1	0.0	ı	ı	1	1.3	ı	ı	ı	1
	50.0	0.0	ı	ı	ı	1	ı	ı	2.3	1	1	ı	ı
	55.0	0.0	1	1	ı	1	ı	ı	5.6	ı	ı	ı	ı
150.0	60.09	0.0	ι	ı	1	ı	ı	1	2.0	ı	ı	ı	ı
						Diaphu	Diaphus spp.						
STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
								5 7	!		2.2	1	
0.00	0.07	0.0		l 1	0 1		- 1		ı	ı	1	ı	1
	0.0	1 1	1	۱ ۱	ı		1	30	ı	1	ı	ι	ı
	0.00	-	ı	ı	0.0	0.0	ł	2,5	ı	ı	0.0	ı	ı
	0.09	0.0	1	ı	0.0	0.0	1	10.0	1	ı	0.0	1	ı
	65.0	ı	ı	1	1	0.0	ı	3,3	1	ι	1 4	ı	ı
	70.0	0.0	ı	ı	ı	0.0	ı	23.2	1	ı	0.0	ı	1
	80.0	ı	ı	ı	ı	0.0	ſ	m m	ı	t	7.4	ı	ı
	85.0	ı	ı	ı	1	12.5	ł	4.0	ı	1	1 6	l	1 1
	0.06	0.0	į	ı	0.0	0.0	i	T . c	ı 1	1 1	•	I (ı
	55.0	0.0	ı	l '	0.0	4.0	l 1	10.5	ı ı	ı I	° 1	ı	ı
	0.00	ı	1 1	1 1	1		1	20.0	ı	ı	0.0	ı	ı
	200	ı	ı	ı	1))))	1	13.6	1	ı	ı	1	ı
	0.06	0.0	1	ı	0.0	1	1	7.8	ı	ı	5.2	1	ı
	75.0	1	ı	ı	ı	0.0	t	12.4	ı	1	1 (ı	ι
	80.0	0.0	ı	i	0.0	0.0	ı	₩. (3.4	i	ı	0.0	ı	
	85.0	1	ı	1	1 0	0.0	ı	44.7	1	I	1 0		1 1
	0.06	0.0		ı	0.0	0.0	î	134.6	ı	ı		l 1	1
	0.09	0.0	0.0	ı	0.0	0.0	ı	2.0	1	1 1	0.1	ı ı	ı
	75.0	ı	ı	1	1 4		I	1.0°	1	1			1
	90.0	ı	ı	ı	0.0	v. 0	1 4	2.5	ı	1	0.1	1 1	1
	65.0	1	ŧ	ı	0.0	0.0	/ • 9			1 1		1	ı
	75.0	ı	ı	ı	1 9	0.0	1 6	ى ب ب	ł	1 1	0		ı
	0.0	ı	1	1	0.0	•			1	ı	:	1	ı
	20.0	1 6	1 0	1 1		٠ د د		, ,	0.0	ı	0.0	0.0	0.0
	75.0	· 1) 	. 1			0.0	0.0	8.9	ı	1	1	ı
80.0	85.0	ı	1	ı	0.0	0.0	3.0	0.0	0.0	ı	ı	1	1
83.0	55.0	0.0	0.0	ı	0.0	2.8	0.0	0.0	0.0	ı	0.0	0.0	0.0
83.0	60.09	0.0	0.0	ı	0.0	0.0	0.0	4.9	0.0	ı	0.0	0.0	0.0
83.0	65.0	ı	ı	t	0.0	0.0	0.0	2.8	0.0	ı	ı	ı	ı

TABLE 4. (cont.)

Diaphus spp. (cont.)

00 0000000 0 00 Š. 000000 NOV. 00 Ş 11111111000002002002008 SEP JULY 0600000000000000 JUNE MAY APR. 000000000 000000 0000 00 0 000 MAR 100000000101000000111100001100101000 EB STATION 8833.00 8877.00 8877.00 8877.00 8877.00 8877.00 8877.00 8877.00 8877.00 8877.00 8877.00 8877.00 8933.00 8933.00 8933.00 8933.00

TABLE 4. (cont.)

				Dia	is snyde	Diaphus spp. (cont.)	ıt.)					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JOLY	AUG.	SEP.	ocr.	NOV.	DEC.
153.0 16.0	0.0				1		1	6.8	ı	ı	l,	ı
				La	mpadena	Lampadena urophaos	501					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JOLY	AUG.	SKP.	ocr.	NOV.	DEC.
i i		0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	2.8	1	0.0
90.0 120.0	ı	l I	1 1	1 0	000	1 0	1 0	٦,	2.7	1 1	1 1	1 1
	0-0	0.0	0.0	0.0	0.0	0.0	0.0	16.1	2.8	1	ı	0.0
	1	1	1	1	1	1	ı	i	5.6	ı	ı	0.0
	1 4	1 9	1 0	1 6	1 0	10	1 6	10	5.4	1 4	L	1 1
97.0 50.0	0.0	0.0	0.0		000			200	1 1	D 1	1	1
	1	ı	ı	0.0	0.0	0.0	0.0	3.4	1	1	1	ı
97.0 90.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	ı	ص م و	I	ı
0.0	1 0	-	0.0	0.0	0.0	0.0	0.0	2.5	Į I	0.0	1 (
100.0 45.0	0.0	0.0	0.0	•	000	•	•	, 0		0,0	1	
•	0.0		• 1	0.0	0.0	0.0	0.0	19,3	ı	0.0	ı	ı
. 0))))	ı	0.0	0.0	0.0	0.0	6.3	1	1	ı	ı
100.0 90.0	0.0	0.0	i	0.0	0.0	0.0	0.0	4.6	ı	2.3	ı	ı
103.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	10	4.5	ı	0.0	1 1	1 1
103.0 50.0	000	000	•	•	000	•	000	70.0	1 1	000	1 1	1
103.0 60.0	000	0.0	0.0	0.0	0.0	0.0	0.0	14.9	ı	5.7	ı	1
103.0 65.0	. 1	1	1	0.0	0.0	0.0	0.0	42.0	ı	1 4	ı	
103.0 70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.7	ı	0.0	1 1	1 1
103.0 75.0	1 1	1 1	1		•			25.2	1	1	1	ı
	0.0	1	1	0.0	3.0	0.0	0.0	8.6	ı	0.0	1	ı
107.0 55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	ı	1	ı	ŀ
	1 0	ı	1 0	0.0	0.0		0.0	0.0	1	1 0	ı ı	i 1
	-	1 1	000			9.0	000	21.3	1 1	.0	1	1
	• 1	ı) • • I	0.0	0.0	0.0	0.0	6.5	ı	1	ı	ı
	0.0	ı	1	0.0	0.0	0.0	0.0	3.0	1 1	8.9	ı	ı
_	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ທີ່ເ	0.0	0.0	1 1	1 1
110.0 50.0	0.0	•		•		•		3.5			1	ı
	000	00	0.0	000	000	2.6	0.0	56.5	ı	0.0	1	ı
	,	0.0	0.0	0.0	0.0	2.8	0.0	0.0	1	1	ŧ	ı
110.0 70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ı ı	4.9	1 1	1 1
		1 0	1 0	90	000				1	2.8	1	1
	· 1	2)))	0.0	2.9	0.0	0.0		ı	,	ı	ı

TABLE 4. (cont.)

	DEC.		
	NOV.		
	OCT.	2.00000 12.00000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000	13.7 13.7 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10
	SEP.	0.01111111110911111	0.80
	AUG.	201010101010101010101010101010101010101	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(cont.)	מתיג	000000000000000000000000000000000000000	
	JUNE	20000000000000000000000000000000000000	00000000000000000000000000000000000000
Lampadena urophaos	MAY	400000000000000000000000000000000000000	0001000408804400440000401011
Lampade	APR.	000000000000000000000000000000000000000	
	MAR.	000000000000000000000000000000000000000	000000000000000000000000000000000000000
	FEB.	00000000111000011	000000 0000 0000 00000 001
	JAN.	0 0 0 4 0 1 0 1 4 0 0 0 1 0 1 0	0000001010101000101000000
	Z	0.04488899999999999999999999999999999999	88888888888888888888888888888888888888
	STATION		1117.0 1128.0 1128.0 1128.0 1128.0 1128.0 1128.0 1128.0 1129.0 1129.0 1139.0 1139.0 1139.0 1139.0

				Lampade	ampadena urophaos	phaos	(cont.)					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SKP.	OCT.	NOV.	DEC.
133.0 60.0 137.0 50.0 137.0 55.0	0.00	0.011	0.0	0000	10.1	0.0	0000	1.7	1 1 1 1	0.0	1111	1 1 1 1
140.0 55.0	0.0	ı	ı	5.2	ı	1	,	0.0	ı	ı	ı	ŧ
				T	ampanyctus spp	tus sp	p.		 			
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
77.0 55.0	0.0	0.0	1 1	0.0	0.0	0.0	0.0	3.2	1 1	0.0	0.0	0.0
	1 1	10	1 1	1 0	11.5	1 6	0	. 4 . 4	1 1	0,0	1 1	1 1
	1	0.0	ı	0.0	0.0	0.0	0.0	2.7	1 0	0.0	1 4	1 0
	1 1	0.0	0.0	00	000	0.0	0.0	3°1	0.0	000	000	0.0
	i	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	8,0	0.0	0.0	0.0
93.0 60.0	0.0	0.0	0.0	000	0.0	0.0	0.0	0.0	ວິດ	0.1	0.1	0 1
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	1 1	1 1	0.0
93.0 II0.0 97.0 55.0	0.0	0.0	0.0	1 1	0.0	0.0		3.0	7:7	0.0	1	1
	0.0	0.0	1 0	0.0	0.0	0.0	0.0	9.0		0.0	1 1	1 1
	1 1	0 1	0 1	2.9	0.0	0.0	0.0	0.0	1	. 1	1	ı
	0.0	0.0	1 1	2.7	00	0.0	0.0	۳. د م	1 1	0.0	1 1	1 1
	0.0	0.0	ı	0.0	0.0	0.0	0.0	9	ı	0.0	ı	1
	0.0	0.0	0.0	11.1	0.0	0.0	1 1	0.0		000	1 1	1 1
	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	1	0.0	1	ı
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	00	1 1	0.0	1 1	1 1
))))))	2.8	0.0	0.0	0.0	3.0	ı		1	ı
	0.0	0.0	0.0	0.0	0.0	0.0	2.7	000	1 1	0.0	1 1	1 1
	0.0	ll	0.0	0.0	0.0	000	5.7	0.0	1	0.0	ı	ı
	1 9	1 9	1 4	0.0	0.0	0.0	11.2	0.0	1 1	10	1 1	1 1
107.0 40.0	00.	0.0	0.0	000	000	000	0.0	900	1 1	0.0	1	1
	0.0	1 1	0,0	0.0	0.0	0.0	2.0	000	: 1	2.8	1 1	1 1
	0.0	ı	0.0	0.0	0.0	0.0	2.8	15.2	ı	0.0	1	1

TABLE 4. (cont.)

	DEC.	
	NOV.	
	OCT.	100000010100011010100100100100000000000
	SEP.	11211111111111111111111111111111111111
	AUG.	mooooooooooooooooooooooooooooooooooooo
ont.)	JULY	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
spp. (c	JUNE	200827000000000000000000000000000000000
Lampanyctus spp. (cont.)	MAY	22000000000000000000000000000000000000
Lampa	APR.	000000000000000000000000000000000000000
	MAR.	
	FEB.	
	JAN.	
	N.	88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	STATION	10000000000000000000000000000000000000

TABLE 4. (cont.)

DEC.	
NOV.	1,1111111111111111111111111111111111111
OCT.	0000001 2200 22 2 2 2 2 2 2 2 2 2 2 2 2
SEP.	0000 00
AUG.	1000@ww00v0wv0nuvu100w0v1 1 1 1 1 1 1 1 1 1
JULY	
JUNE	
MAY	 00000000000000000000000000000000000
APR.	10002872 0002000 0000000000000000000000000
MAR.	
FEB.	
JAN.	
Z	88 84 84 84 84 84 84 84 84 84 84 84 84 8
STATION	10000000000000000000000000000000000000

TABLE 4. (cont.)

				Lampa	Lampanyctus spp. (cont.)	spp. (c	ont.)					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	oct.	NOV.	DEC.
147.0 55.0	0.0			0.0	-	,	1	4.4	1	1	1	1
147.0 60.0	0.0	ı	1	5.8	ı	ı	1	1.0	ı	ı	t	1
	0.0	ı	ı	ı	ı	ı	ı	2.6	ı	ı	1	1
_	0.0	1	ı	ı	ı	ı	ı	6.0	ı	1	ı	ı
	2.2	ı	ı	1	١	ı	ı	6.4	ı	ı	ı	ı
	7.9	1	ı	ŀ	ı	i	ı	1.6	ı	1	ı	1
	4.8	ı	ı	ı	1	ı	ı	14.3	ı	1	ı	ı
	2.0	ı	ı	ı	ı	ı	i	0.0	ı	1	ı	ı
	0.0	1	ı	ı	ı	ı	ı	2.0	ı	1	1	1
	2.5	1	i	ı	ı	ı	1	1.7	1	1	ı	ı
	0.0	ı	1	1	ı	ı	ı	1.9	1	ı	ı	ı
	11.5	ł	1	ı	ı	1	ı	ı	ı	ı	ı	ı
	2.3	ı	ı	1	ı	ı	ı	ı	ı	ı	1	ı
		ı	ı	1	1	ı	1	ı	1	ı	1	ı
	2.8	ı	ı	ı	ı	1	i	ı	ı	ı	ı	ı
	2.9	ı	1	ł	ı	ı	ı	1	ı	ı	ı	ı
	5.0	ı	ı	ı	ı	ı	ı	ı	ı	1	ı	ı
		1	ı	ı	1	,	1	ı	1	ı	ı	ı
	13.4	ı	ı	1	ı	ı	1	ı	ı	ı	ı	ı
	4.6	1	ı	1	1	ı	ı	ı	ı	1	ı	ı
	10.4	1	1	1	1	i	ı	1	ı	ı	ı	1
	16.9	ı	ı	ı	ı	ł	ı	ı	ı	ı	1	ı
	2.7	ı	1	ı	ı	ı	ı	1	ı	ı	ı	ı
	1.8	ı	1	ı	1	ı	1	ı	ı	ı	ı	1
	23.2	ı	ı	1	ı	ı	1	i	ı	1	ı	ı
				Lam	Lampanyctus regalis	s regal	is					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
!												
	0.0	i	ı	0.0	0.0	ı	3.0	ı	1	0.0	ı	ı
	0.0	ı	ı	0.0	0.0	1	2.5	ı	ı	0.0	ı	ı
	0.0	ı	1	0.0	0.0	i	m,	1	ı	0.0	ı	ı
	1 4	1	ı	1 4	0.0	ı	 	ı	I	1 9	ı	ı
	0.0	ı	1	0.0	0.0	ı	ر. <i>ا</i>	i	I	0.0	ı	ı
	0.0	ı	ı	0.0		ı		ı	I	0.0	1	1
	0.0	ı	ı	0.0		ı	2,0	ı	ı	0.0	I 1	1 1
	1 6	ı	ı	1 6	0.0	1 1	000	l	1 1	0	۱ ا	١ ١
	•	1	1 1		1 6	1 1	, ,	۱ ا			- 1	ı
	· • •	1	1			ı ı	2.5	. 1	ı	• 1	ı	ı
	,	ı	,)) 	7,	ı		1	ı	1	ı	1
	0.0	ı	ı	0.0	0.0	ł	9	ı	ı	0.0	1	ı
	1	ı	1	1	3.0	1	0.0	ı	ı	ı	ı	ı
73.0 80.0	ı	ı	1	2.9	0.0	1	9.9	ı	ı	0.0	ı	ı
	ı	ı	ı	ı	0.9	ı	0.0	ı	ı	ı	ı	ı

TABLE 4. (cont.)

	DBC.	00 0 0 0 0	DEC.	
	NOV.	00.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	NOV.	1111111111111111111
	ocr.	00 0 0 00 00 00 0 0 00	OCT.	8 0 9 000 000000 00000000000000000000000
	SEP.	00 0	SEP.	
	AUG.	molililooomoolooooooo	AUG.	
(cont.)	JULY	, , , , , , , , , , , , , , , , , , ,	JULY	22.28.41.00.00.00.00.00.00.00.00.00.00.00.00.00
galis	JUNE	3.1 13.4 13.4 13.6 13.6 13.6 13.6 13.6 13.6 13.6 13.6	JUNE	
ctus re	MAY	0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	MAY	12.2 0.0 0.0 0.0 0.0 12.2 14.7 14.7 0.0
Lampanyctus regalis (cont.	APR.	Tage 1	APR.	10000000000000000000000000000000000000
I	MAR.	0 00	MAR.	
	FEB.	0010111100100100101010100	FEB.	
	JAN.	0.0000000000000000000000000000000000000	JAN.	0 000 0
		746655 74665 7	z	880.0 885.0 755.0 765.0 760.0 775.0 880.0 880.0 880.0
	STATION	77.0 777.0 777.0 777.0 777.0 777.0 777.0 883.0 883.0 883.0 883.0 883.0 883.0 883.0 883.0 883.0 883.0 883.0 883.0 883.0 883.0 883.0 883.0 883.0 883.0 883.0	STATION	50.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00

TABLE 4. (cont.)

					Lampanı	Lampanyctus ritteri	tteri	(cont.)					
STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JOLY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0	70.0	0.0			2.3	1	1	9.5	1	ł	0.0	1	ł
70.0	75.0)	1	1	ı	5.5	ı	3.1	ı	ı	1 4	1	ı
70.0	80.0	0.0	ı	ı	0.0	3.4	1	₩. •	I	ı	0.0	ı	i
70.0	85.0	1 (ı	ı) L	m c	ı	9.0	t I	1 1	10	1 1	1 1
70.0	90.0	0.0	1 9	ı	7.0	0.0		4.0	1 1	1 1	•		ı
73.0	20.0	•	3.0	1 1	12.7	0.0	1		i	ı	0.0	1	1
73.0	75.0	0.1	7.1	1	1	12.2	ı	0.0	ı	ı		ı	ı
73.0	80.0	ı	1	1	0.0	24.1	ı	3.3	1	ı	0.0	ı	1
	85.0	ı	1	ı	1	24.2	ı	0.0	ı	1	1	ŧ	1
	90.06	1	1	ı	5.9	2.9	1	3.2	1 4	ı	0.0	i	1 4
0	55.0	0.0	0.0	ı	6.1	ı	0.0	3.4	0.0	ı	0.0	0.0	0.
77.0	57.0	1	0.9	ı	1 6	1 0	1 1	1 6	1 4	ı	1 9		0
77.0	60.09	0.0	0.0	ı	2.9	000	3.5	200	0.0	1 1	0 1		• 1
77.0	65.0	1 0	11	1 1		9.0	4.C.	•	ı	ı	0.0	0.0	0.0
0.77	75.0	0.1	* 1	۱ ا) 	, 0	r • 1	9	ı	1)	1	1
77.0	0.08	. 1	- 1	1	3.1	12.9	0.0	4.6	1	1	0.0	1	1
77.0	85.0	ı	ı	1	1	0.0	16.6	0.0	ı	1	1	ı	1
77.0	0.06	ı	ı	ı	3.0	8.6	20.5	0.0	ı	ı	0.0	1	1
80.0	55.0	2.8	0.0	ı	3.0	0.0	0.0	0.0	0.0	ı	0.0	0.0	0.0
80.0	0.09	0.0	0.0	ŀ	6.3	3.0	0.0	ന	0.0	1	0.0	0.0	0.0
80.0	65.0	1 4	1 '	ı	3.1	0.0	0.0	0.0	10	ı	1 6	1 6	1 6
80.0	70.0	0.0	6.1	ı	9.0	0.0	•	000	0.0	1 1) 	0 1	
0.0	75.0	¥	ני ני	1 1	•		0	000			2.8	1	1
0.00	0.0	0 0 I	C*CT	1	0 0	96	0	0	0.0	ł	1	ı	ı
80.0	0.06	0-0	6.2	1	2 . 8	7.3	3,3	0.0	0.0	ı	0.0	1	ı
80.0	100.0	1		1	ı	5.7	1	ı	ı	ı	ı	ı	ı
80.0	110.0	ı	ı	ı	ı	6.1	ı	t	1	ı	ı	ı	ı
80.0	120.0	ı	ı	ı	1	8.7	ı	ı	ı	1	ı	1	1
80.0	130.0	1 4	1 0	1 4	10		1 9	1 0	1 9	1 1	1 0	1 0	1 0
83.0	43.0	0.0	0.0	0.0	. c	90		•	•	ı I			
200	0.00	90		1 1	200	0.0	000	9	0	ı	0.0	0.0	3.0
	65.0	י ז	• 1	1	0	0.0	0.0	2.8	0.0	!	ı	1	1
83.0	70.0	14.7	2.4	ı	0.0	24.8	11.5	0.0	3.2	ı	1.5	1	ı
83.0	75.0	1	1	ı	0.0	8.2	3.1	0.0	1 :	1	1 0	ı	ı
83.0	80.0	2.8	2.9	ı	0.0	0.0	2.9	0.0	4.7	ı	0.0	ı	ı
83.0	85.0	1 9	,	ı) r		1.0	0.0	1 0	1 1	c 1 c	1	
83.0	0.00	0.0	1.0	1 0	7.7	• •		000		1 1	000	0.0	0.0
87.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ì	0.0	0.0	0.0
87.0	55.0	0.0	0.0		6.2	0.0	0.0	0.0	0.0	ı	0.0	200	0.0
87.0	60.0	ı	1.3	ı	0.0	0.0	0.0	0.0	0,0	1 1	0.0	0.1)))
0./0	0.00	I	ı	ı	3.0	7.0	11.3	3.5	0.4				

				Lampany	ampanyctus ritteri	tteri	(cont.)					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
0 07 0 70				6.0	10.2	9.9	0.0	6.4		0.0		
87.0 75.0	1	• 1	1	0.0	15.2	2.6		0.0	ı	. 1	ì	!
87.0 80.0	ı	5.7	1	3.0	2.8	15.3	0.0	0.0	ı	0.0	ı	ı
87.0 85.0	ι	í	1	0.9	5.9	0.0	0.0	0.0	ı	1 9	ı	ł
87.0 90.0	1 (10.4	10	2.8	0.0	8	0.0	0.0	1 1	0.0	1 0	1 1
90.0 30.0	2.0	•	0.0	1 0	1 0	c 1 C	۰ ۱	c	c	-		0
90.0			•	200				0	0.0	0	0.0	0.0
0.04.0.00		90				0	0.0	0.0	0.0	0.0	2.7	3.1
0.00	٥	4	0.0	0.0	12.8	0.0	0.0	0.0	0.0	3.5	0.0	0.0
90.0 65.0	1	1	4.5	,	15.3	0.0	0.0	0.0	5.7	ı	1	ı
	ı	1.4	16.4	14.5	3.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0
	ı	ı	1	5.6	6.1	0.0	0.0	3.1	0.0	ı	L	ı
	ı	1.5	12.9	2.9	3.4	11.8	3.3	0.0	0.0	0.0	3.5	0.0
	1	ı	ı	2.9	3.1	ı	3.0	5.6	0.0	1	t	1 (
	ı	2.9	4.5	0.0	0.0	ı	0.0	3.0	0.0	0.0	ı	2.9
	ı	ı	ı	ı	2.8	ı	ı	ı	0.0	ı	ı	0.0
	ı	ı	ı	t	8.7	ı	1	ı	0.0	ı	ı	ı
	1	ı	1	ı	2.8	ı	1	ı	1	ı	!	ı
	ı	ı	ı	ı	2.8	1	ı	ı	ı	1	t	1 1
	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0
	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	6°8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
	0.0	2.9	0.0	0.0	7.7	7.4	•	200	•		10	0.0
	0.0	0.0	7.0	9.0		00	•	•	000	٥)))	4 1
	c 1 c	۱ ۱	7	ຕິດ	•	90			2.0	3.3	0.0	2.9
	٥	ı	• 1			2.0	0	0.0	0.0	1	1	1
	0.0	0.0	13.2	9.8	0.0	3.2	3.4	0.9	0.0	0.0	0.0	0.0
)	1	1	0.0	0.0	0.0	0.0	9.2	0.0	ı	ı	1
	0.0	0.0	4.6	2.9	9°3	0.0	0.0	3.2	0.0	1 (ı	0.0
	0.0	0.0	2.5	0.0	2.0	9.0	0.0	0.0	ı	•	ı	1
	0,0	0.0		2.0	0.0	0.0	•	•	1 1	•	1 1	1
	0.5	•	000	0 1	•		٥		ı		ı	ı
	7 T	•	000	2		2.7	2.8	0	ı	0.0	1	1
	י י	• 1	٥	0.0	2.8	2.7	0.0	0.0	ı	1	ı	ı
	0.0	10.5	ı	0.0	0.0	6.5	0.0	0.0	ı	0.0	ł	1
	ı	ı	ı	8.1	0.0	3.0	2.9	3.4	1	1 0	1	ı
	3.0	20.9	ı	0.0	0.0	0.0	200	0.0	1	0.0	1 1	1 1
	1 4	1 6	1 1	•	200	n c	٠ د د	•	1 1	0	1	1
0.06 0.00	000	2.0	-		000		00	5.0	1	0.0	1	1
) 	0.0	20.8	0.0	0.0	0.0	0.0	0.0	ł	0.0	ı	ı
	0.0	2.7	7.4	0.0	0.0	0.0	0.0	0.0	ŀ	2.8	1	ı

TABLE 4. (cont.)

	DEC.	ı	ı	1 1	1	1	i	1	1	1	1	ı	ı	ı	ı	1	ı	ı	ı	ı	ı	i	ı	ı	1 1	1	1	1	ı	ı	ı	ł I	1	ı	1	ı	ı	1	ı	ı	ì	ı		
	NOV.	ı	ı	1 1	1 1	1	1	1	1	ı	ı	ı	i	ı	ı	ı	ı	ı	ı	i	ı	1	ı	ı	1 1	ı I	í	ı	ı	1	ı	ı	1 1	ı	ı	ı	ı	ı	1	ŧ	ı	ı		
	OCT.	0.0	٠ د د) 	د ا د		0	0.0	2.8	0,0	0.0	0.0	1	0.0	0.0	1	2.8	5.0	0.0	0.0	1.6	1 4	0.0	1 9	0.0	۰ ۳)))	0.0	0.0	0.0	0.0	0.0	0.0	0)))	2.6	0.0	0.0	0.0	0.0	0.0	1 0	•
	SEP.	ı	1	1 1	1 1	1	ı	ı	ı	1	ı	1	ŀ	ı	ı	1	ı	1	ı	ı	ı	ı	1	1	ı	1	1	1	0.0	ı	ı	ı	I 1		ı	,	0.0	2.7	1	1	1	1	1 1	1
	AUG.	0.0	0.0		•		0	0.0	200	2,5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	,	. 6	3.0	0.0	0.0	0.0	0.0	4.0	•		٥	3.2	0.0	0.0	2.9	0.0	0.0	0.0	
(cont.)	JULY	0.0	0.0	0.0	c 1 C				0.0	0	0.0	0.0	0.0	2.7	2.8	5.6	0.0	2.8	0.0	0.0	0.0	0.0	5.0 0.0	0.0	20.0	•		0.0	0.0	0.0	0.0	5.1			, «			0.0	0.0	0.0	0.0	0.0	0.0	•
tteri	JUNE	0.0	0.0	90	•	•		0			2.0	2.8	8.5	0.0	0.0	0.0	0.0	0.0	3,3	0.0	0.0	3.0	3.0	0.0	0.0	•		2.5	0.0	0.0	0.0	0.0	0.0	•				0.0	0.0	0.0	0.0	2.7	0.0	
Lampanyctus ritteri	MAY	9.2	0.0	ى ر. م. ر	70		9	2.0			0.0	9.0	0.0	0.0	0.0	3.0	0.0	0.9	5.7	2.5	0.0	0.0	0.0	0.0	0.0	•			0.0	0.0	15.2	0.0	90	, c	•	•	,	0.0	0.0	0.0	0.0	0.0	m c	0.7
ampany	APR.	0.0	0.0	0.0	2°0			0			0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	3.3	0.0	0.0	0.0	0.0	0.0	200			4.6	2.6	5.4	0.6	4.0	9.0	7.6	, c	2°C	, C	2.6	0.0	4.6	4.5	0.0	4.0
I	MAR.	2.5	0.0	0.0	1 1	1	1	2.5				0.0	1	0.0	0.0	ı	0.0	0.0	2.6	0.0	7.7	0.0	2.5	1 6	0.0	ه ۱ ۲	9 1	ı	0.0	0.0	0.0	0.0	7.7	9.0) - 			4.	3.2	0.0	0.0	0.0	0.0
	FEB.	5.0	2.3	3.6	ור	0.0	. 4		9			0.0	1	2.3	ı	1	0.0	2.0	0.0	0.0	2.3	1.9	0.0	ı	ı	1 1	ı I	1	0.0	2.7	9.3	80 °	o. c	, c	•	٠ ا د	6 9	26.8	12.7	2.9	2.8	3.1	0.0	0.0
	JAN.	0.0	1 (2.8	0	90	2.0	a a	. 4			2.3	ı	11.6	5.4	ı	8.0	0.0	6.6	2.8	0.0	0.0	4.8	1 9	2.8	1 6	٥	0	0.0	0.0	0.0	0.0	0.0	1 5	72.0	9 1	-	٠ ١	0.0	3.0	4.2	0.0	1 9	0.0
	Z	50.0	55.0	60.0	65.0	0.0	0.00	0.0	72.0	0.05		60.0	65.0	70.0	80.0	85.0	32.0	35.0	40.0	45.0	50.0	55.0	0.09	65.0	70.0	0.00	0.00	0.00	40.0	45.0	50.0	55.0	60.0	000	0.00	0.00	20.00	40.0	45.0	50.0	55.0	0.09	65.0	0.0
	STATION	100.0	100.0		100.0			103	200	103.0	103	103.0	103.0	103.0	103.0	103.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	0.011	1130	113.0	113.0	113.0	113.0	113.0	113.0	0.611

TABLE 4. (cont.)

			7	ampany	Lampanyctus ritteri	tteri	(cont.)					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	ocr.	NOV.	DBC.
113 0 75 0		1 1		2.6	2.9	2.7	19.0	0.0	ı	1	1	1
113 0 80 0	0.0	ı	0.0	2,3	0.0	2.9	0.9	0.0	1	0.0	1	ı
113 0 85 0)))	ı		3.0	0.0	3.0	3.0	1	1	1	1	ı
113.0 90.0	3.0	1	ı	0.0	0.0	0.0	0.0	ı	1	0.0	ı	1
117.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	1	ı
117.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	ŀ	ı
0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	ı	0.0	ı	1
0.	0.0	0.0	0.0	8.3	0.0	2.6	2.7	3.3	1	0.0	1	ı
0.	5.6	0.0	0.0	0.0	0.0	0.0	5.4	0.0	ı	0.0	ı	ı
0	5.4	7.6	0.0	0.0	0.0	3.0	0.0	0.0	ı	0.0	ı	ı
0.	ı	5.6	0.0	2.9	0.0	0.0	0.0	0.0	ı	1 6	ı	ı
117.0 70.0	0.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0	1 1	0.0	1 1	
0.0	1	ı	ı	0.0	0.0			7 -0	1 1	1		. 1
٠,	1 0	1 1	1 1		, c			1	ı	0.0	1	ı
			0	, c				0.0	0.0	0.0	ı	ı
120.0 40.0		000	000	0.0	1.8	0.0	0.0	0.0	0.0	0.0	ı	ı
	0.0	0.0	0.0	0.0	5.4	0.0	0.0	2.9	0.0	0.0	ı	1
	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	ı	0.0	ı	ı
	0.0	0.0	0.0	8.4	2.8	11.2	0.0	0.0	ı	0.0	ı	1 1
120.0 60.0	0.0	0.0	5.7	4.0	0.0	0.0	000	0.0	1 1	0 1	1 1	1 1
	1 6	•	200	•	, c	000		000	ı I	0.0	- 1	ı
123 0 37 0			0.0	•	0.0	4.	0.0	0.0	0.0	0"0	ı	1
	• 1	0.0	0.0	ı	8.9	0.0	2.8	0.0	ı	0.0	ı	1
	1	0.0	0.0	ı	23.4	0.0	0.0	0.0	ı	0.0	ı	ı
	0.0	0.0	0.0	ı	0.0	0.0	2.6	0.0	ı	0.0	ı	
	0.0	1	ı	1	0.0	0.0	7.7	0.0	1	0.0	1 1	1
	1 9	1 0	10	1 0	0.0	000	1/00		1	0 0	1	ı
137.0 45.0	•		•		27.0	000	0.0	000	ı	0.0	ı	ł
	0.0)))	. 1	0.0	1)	5.1	0.0	1	0.0	ı	ı
137.0 60.0	0.0	ı	ı	0.0	1	1	2.6	ı	ı	0.0	ı	ı
				Noto	Notoluchnus	valdiviae	viae					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0 90.0	0.0	0.0	1 1	6.3	0.0	0.0	0.0	3.1	1 1	0.0	1 1	1 1
	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	i	0.0	ı	ı

TABLE 4. (cont.)

TAN											
		MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
1	1	1		15.3	,			1	1	1	,
ı		ı	ı	2.9	ı	1	ı	1	1	ı	ı
ı		ı	ı	13.8	1	1	1	1	ı	ı	1
ı		ı	1		1 (1 9	1	1	1 0	ı	1
0.0		ı	0.0	0.0	9,0	0.0	0.0	t I	0.0	1 1	1 1
00		0	200				200	0	000	0	0
			000			0	0	٥	2,6)))	1
) 	0.0	2.8	0.0	0.0	0.0	ı	0.0	ı	ı
0	_	1	0.0	0.0	0.0	0.0	6.3	ı	0.0	1	ı
0.0		0.0	0.0	0.0	0.0	1	2.8	ı	0.0	ı	i
0.0		0.0	0.0	0.0	0.0	3.0	0.0	1	2.8	ı	ı
0.0		0.0	0.0	0.0	0.0	0.0	3.0	1	0.0	1	1
0.0		0.0	0.0	0.0	0.0	0.0	3.0	ı	0.0	ı	ı
		0.0	0.0	0.0	0.0	0.0	0.0	ı	3.0	ł	ı
1		ı	0.0	0.0	0.0	2.9	0.0	ı	1	i	1
ı		0.0	0.0	0.0	0.0	0.0	9.2	ı	2.8	ı	•
1		ı	0.0	0.0	0.0	5.5	0.9	1	ı	ı	1
ı		0.0	0.0	0.0	0.0	2.8	0.0	i	0.0	ı	1
1		1	0.0	0.0	0.0	0.0	0.0	1	5.6	1	ı
0.0		0.0	0.0	0.0	0.0	0.0	5.9	ı	0.0	1	ı
0.0		0.0	0.0	0.0	0.0	0.0	3.1	ı	0.0	1	ŀ
0.0		0.0	0.0	0.0	0.0	0.0	e	ı	2.5	ı	ı
1 9		10	0.0	0.0	•	19.4	0.0	1	1 9	1	1
0.0		0.0	0.0	0.0	0.0	200	0.0	1 1	0.0	1 1	1 1
1 0		0		•	•	2.21 0.21	L L	c	c		
90		•		•		, c	י טיני	• 1			ı
•		•		•			, 0	ı	٥	ı	ı
•		0 1					27.1	ı	ı	ı	1
1		0.0			0	20.9	19.3	1	0.0	ì	1
ı			0.0	3.0	0.0	15.0	ı	1	1	ı	ı
ı		1	0.0	0.0	0.0	0.0	ı	1	3.1	1	ı
1		ı	1	ŧ	1	1	ı	4.6	1	ŧ	1
0.0		0.0	0.0	0.0	0.0	0.0	3.0	2.6	0.0	1	1
0.0	_	0.0	0.0	0.0	0.0	0.0	3.0	ı	3.0	1	t
0.0	_	0.0	0.0	0.0	0.0	0.0	۵. و و	ı	0.0	ı	ı
ı		1	0.0	0.0	0.0	0.0	14.3	1	1 4	1	t
ı		0.0	0.0	0.0	0.0	ر د د د	14.6	ı	0.0	ı	ı
10		1 9	0.0	0.0	000	12.4	0	I 1	•	! !	
,		•	000				000	1 1	2.7	1 1	1
0.0		0.0	2.0	0.0	0.0	0.0	0.0	t	1	ı	ı
1			0.0	1	0.0	15.5	10.4	1	1	ı	ı
0.0		0.0	0	_		5 7	7 7	ł	ď	1	ı
			2.5		0.0				1		

TABLE 4. (cont.)

	DEC.		t I	1 1	ı	1	ı	ı				i	ı	ı	ı	ı		DEC.	1	ı	1	ı	ı	1	1	ı	1	ı	1	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	1	ı	ı	1	
	NOV.		17	۱ ۱	ı	ı	ı	ı		- 1		ı	1	ı	ı	ı		NOV.		1	ı	ı	1	1	ı	ŧ	ı	1	ı	ı	ł	ı	1	ı	1	ı	ı	ı	ı	ı	ı	ı	ı	ı	
	ocr.	0.0	0.0	•	2,6	0.0	0				•	0.0	1 4	0.0	0.0	ı		OCT.	2.6	2.9	4	4.0	0		0.0	1	0.0	ı	0.0	0.0	0.0	0.0	0.0		2.9	ı	0.0	ı	2.8	0.0	0.0	0.0	ı	2.8	
	SEP.	,	1	1 1	1	ı	1	-	•	•		ı	ı	i	ı	ı		SEP.		4	t	ı	ı	ı	ı	ı	ı	ı	1	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	
t.)	AUG.		0.0		000	0.0	2.9	. ~	,	•	•	0.0	1	0.0	ı	ı		AUG.	,	1	ı	ı	1	1	1	ı	ı	ı	i	ı	t	ı	ı	ı	ı	ı	ı	ı	ı	1	1	ı	ı	ı	
s (cont.)	JULY	2.7	0.0	10°4	0.0	20.3	10.5			•	•	9.0	7.7	2.8	5.3	2.8	sarus	JULY		0.0		ı	0.0		6.0	0.6	2.8	11.4	0.0	0.0	0.0	7.1	ر د د د د	19.9	0.0	15.9	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	
lenden	JUNE	0.0	0.0	•	000	0.0	0.0					ı	1	0.0	ı	ı	leucop	JUNE		ı	ı	1	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	1	ı	ı	ı	ı	
ns rest	MAY	0.0	æ c	•	000	0.0	0			•		ı		0.0	ı	ı	Stenobrachius leucopsarus	MAY	-	ı	1	1	7.6	0.00	0.0	8.09	42.4	1.9	5.3	17.5		0.0	17.1	0.0	0.0	24.4	18.7	50.1	23.4	36.4	74.1	3.4	18.8	16.2	
Notoscopelus resplendens	APR.	0.0	1	۱ ۱	1	ı	1	0	•	9 4	9.0	7.5		2.7	0.0	ı	Stenop	APR.	1	ı	ı	ı	,	ı	5.9	28.1	24.6	1	5.4	116.2	8.3	100.6	53.1	ı	ı	ı	ı	ı	22.7	21.5	5.0	11.0	ı	ı	
Not	MAR.	0.0	0.0	c 1 c		0))))	0	900	7		ı		0.0	ı	ı		MAR.		1	1	ı	ļ	ı	ı	i	ı	ı	ı	ı	ı	ı	ı	J	ı	ı	ı	1	ı	ı	1	ı	ı	ı	
	FEB.	0.0	0.0		0.0	0) 	0	•	•	ı	ı		0.0	ı	ı		FEB.		1	1	ı	ı	1	1	ı	ı	i	í	ı	i	ı	ı	ı	ı	i	ı	ı	ı	t	1	ı	1	ı	
	JAN.	0.0	10	•) 	0.0			•		•	0.0	1	0.0	0.0	ı		JAN.		1	ı	1	15.8	96.2	16.3	1	0.0	1	0.0		2.5	9.0	5.9	1	0.0	1	ı	ı	9.9	14.7	13.9	2.8	ı	35.4	
	N	90.06	55.0	0.04	20.00	0.09	70.0	25.0	000	•	0.00	0.00	0.00	50.0	0.09	75.0		Z	47.0	80.0	52.0		52.0	. ייי	0.09	65.0	70.0	75.0	0.08	0.06	52.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	0.06	50.0	55.0	0.09	65.0	70.0	
	STATION	120.0	123.0	123.0	127.0	127.0	127.0	130.0	200	120.0	122	133.0	133.0	137.0	137.0	137.0		STATION	50.0	50.0	23.0	23.0	0.09		0.09	0.09	0.09	0.09	0.09	60.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	67.0	67.0	67.0	67.0	67.0	

TABLE 4. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
							1			 		
67.0 75.0	i	ı	ı	ı	0.0	ı	0.0	ı	ı	1 0	ı	ı
0.08 0.	ı	ı	ı		12.2	ı	20.0	i		0.0	ı	ı
0.06 0.	25.9	ı	1	0.0	1	ı	0.0	ı	ŀ	0.0	1	ı
.0 52.0	ı	ı	ı	68.3	2.9	ı	e e	ı	ı	0.0	ı	ı
.0 55.0	26.7	1	ı	100.9	5.9	ı	21.1	ı	ı	0.0	1	ı
0.09 0.	13.6	ı	ı	111.4	42.2	ı	0.0	ı	ı	0.0	ı	ı
70.0 65.0	ı	ı	ı	241.6	1	ı	0.0	ı	ŧ	ŀ	ı	!
70.0 70.0	442.8	ı	ı	130.0	1	ı	6.3	1	1	0.0	1	1
0 75.0	1	ı	1	1	35.6	ı	0.0	ı	ı	ı	ı	1
0.08	3.4.6	ı	ı	15.7	8.9	1	0.0	ı	1	0.0	ı	ı
85.0		ı	ı	ì	17.4	1	6.9	1	ı	1	1	ı
	2		1	3 0 1		ı	200		1	0	1	
0.06.0	000	1 1	ı			1	7.07	1		•		
0.15 0.	0.0	1.3	ı	1.17	4.77	ı	0.0	ı	ı	0.0	ı	
.0 53.0	1	11.7	1	1	ı	1	ı	ı	ł	ı	ı	ı
73.0 55.0	0.0	37.6	1	47.8	2.8	ı	0.0	i	ı	0.0	ı	1
0 57 0		3 0 1	ı	1	1	ı	ı	ı	1	1	ı	ı
	0	24.6	ı	2.0	0.0	ı	0.0	ı	1	0.0	1	ı
)))		ı	153.				ı	1)	1	ı
	6 14	3 10		1.761	*		•	1		•	1	
	40.0	31.3		7.12	* -		•			•	1	
٠,	ı	ı		,	1.00	ı		ı	1	9		
0.08 0.	ı	t	ı	11.6	42.T	ı	0.0	ı	1	0.0	ł	ı
0	ı	ı	ı	1	30.2	ł	0.0	ı	1	1 4	ı	ı
0.06 0.	ı	ı	ı	0.0	2.9	1	0.0	1 -	ı	0.0	ı	ı
0	2.8	10.2	ı	2.8	18.0	0.0	0.0	0.0	ŀ	0.0	1 (1 (
0 53.0	ı	6.3	ı	ı	ı	ı	1	ı	ı	ı	2.3	8.8
0 55.0	36.5	80.0	ı	49.0	1	0.0	0.0	0.0	ı	0.0	2.3	29.8
.0 57.0	1	41.9	ı	ı	ı	ı	ı	į	ı	1	ı	ı
0.09 0	18.6	13.4	ı	72.5	19.4	3.2	5.9	0.0	1	0.0	10.4	35.5
0.55	1		1	130.6	3.0	6.7	0.0		ı	1	1	1
2002	~	19.8	ı	0	16.8	7.3	12.3	1	1	0.0	0.0	0.9
75.0)))	1	1		44.3	1	3.0	1	ı)		
0.08	1	ı	1	- 2	12.9	יייו		ı	ı	0.0	ı	1
85.0	ı	ı	ı	i	2.7	0	0	ł	1		ı	1
	ı	ı	1	0	20.0	0		1	ı	0.0	1	ı
80 0 52 0	8	ı	ı	200				0.0	ı	0	1	•
		A6 5	ı	. 1	. 1		. 1)	ı)	0 8	5.6
200	0 30	ייים מייים		0	27.0	0 0	0	0	•	0		
200	6.00	100		0 - 1 - 1	6.17	י	•			. 1		
0.70			ı		* 00	•		0			0	•
0.00	13.8	20.0	ı	L	4.00	9. 1.		0.0	1	0.	0	0
80.0	1 6	1 (ı	12.3	0.5			1 0	ı	c 1 c		
0.07	7.4	3.0	1	30.0	11.1		2.0	0.0	•	0.0	0.0	0.0
0.6/ 0.	1	1	ŧ	0.0	0.0	20.0	0.0	0.0	ŧ	1 0	ı	ı
80.0	2.6	58.9	ı	0.0	3.2	0.0	0.0	0.0	ı	0.0	I	ı
.0 85.0	1	ı	ı	3.0	0.0	6.1	0.0	0.0	ı	1 4	ı	ı
80.0 90.0	0.0	18.6	ı	0.0	0,0	11	0.0	0.0	ı	=	1	ı
)))				

0 0000000 0000000000 Stenobrachius leucopsarus (cont.) 0.00 6.69 6.70 1.11 1.12 1.12 1.13 STATION

TABLE 4. (cont.)

	DBC.	1,	DEC.	111100101100101110000
	NOV.	111:11:11:11:11:11:11:11:11:11:11:11:11	NOV.	111100101100101110000
	OCT.	10000000100001000010	OCT.	11.8 2.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1
	SEP.	0.1111111111111111111111111111111111111	SEP.	
ıt.)	AUG.	000000000000000000000000000000000000000	AUG.	
s (cont.)	JULY	00000000000000000000000000000000000000	JULY	000001
copsarı	JUNE	mexica	JUNE	111000000000000000000000000000000000000
Stenobrachius leucopsarus	MAY	2.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	MAY	010 00000000000000000000000000000000000
nobrach	APR.	5.7 2.8 0.0 46.1 41.3 11.3 9.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	APR.	001000000000000000000000000000000000000
Ster	MAR.	000,00000000000000000000000000000000000	MAR.	0.11
	FEB.	0000000180001010010	FEB.	000 0 00 0 000000
	JAN.	000000000000000000000000000000000000000	JAN.	
	N.	8888444686969696969696969696969696969696	z	70 990.0 990.0 990.0 775.0 775.0 990.0 871.0 871.0
	STATION	93.0 97.0 97.0 97.0 97.0 97.0 100.0 100.0 113.0 120.0	STATION	777.00.00.00.00.00.00.00.00.00.00.00.00.

(cont.)
mexicanus
Triphoturus

	DEC.	0)	ı	1	ı	ı	ı	0.0	0.0	0.0	0.0	0.0	ı	ı	ı	ı	1	ı	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ı	0.0	ı	0.0	1 4	0.0	0.0	ı	ı	ı	1	0.0	0.0	0.0	0.0	0.0	0.0	000	0 1	0.0	
	NOV.		• 1	ı	1	1	1	ı	0.0	0.0	0.0	2.8	0.0	ı	ı	1	1	ı	ı	0.0	1	0.0	0.0	0.0	0.0	0.0	ı	10.5	ı	0.0	ı	ı	ı	ı	ı	j	ı	0.0	0.0	7.4	0.0	0.0	0.0	1.0	٠ ١	0.0	
	OCT.		•	0.0	1	0.0	1	0.0	6.3	2.7	0.0	2.5	0.0	ı	8°6	1	0.0	1	0.0	2.3	0.0	0.0	3.0	5.1	14.3	7.0	ı	0.0	ı	0.0	1	0.0	ı	ı	ı	ı	ı	0.0	25.0	5.6	28.4	13.9	2.5	1.0	٥	9.9	
	SEP.		ı	1	1	1	ı	ı	ı	ı	ı	ı	ı	ı	1	1	i	ł	ı	0.0	8.2	8.5	0.0	2.7	8.2	7.9	8.6	11.4	30.2	19.4	10.9	15.7	5.8	5.8	4.9	ı	ı	2.6	17.0	66.2	19.3	26.9	29.8	0.65	0 2 7 0	46.6	
,	AUG.	17.2	0	0.0		2.3	1	9.2	0.0	0.0	0.0	0.0	0.0	0.0	48.3	138.6	16.1	2.7	45.4	0.0	0.0	3.2	3.5	5.5	3.0	0.0	7.4	30.1	40.8	19.3	20.7	0.0	1	t	1	ı	ı	0.0	0.0	14.3	33.4	96.9	185.9		, u	6.5	
1001	JULY			0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	35.0	9.1	3.2	0.0	1	3.2	8,3	19,1	0.0	5.7	3.0	0.0	ı	12.2	6.2	18.9	30.5	7.4	30.1	11.8	2.9	ı	ı	ı	ı	ı	3.4	0.0	0.0	10.0	0.0	0.0	9.0	٥٠٢	0.0	
carino	JUNE	0 %		0.0	3.1	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	20.8	19.7	14.0	9.2	0.0	2.8	0.0	0.0	0.0	0.0	2.8	0.0	59.4	0.0	5,3	8.4	29.4	ı	ł	ı	ı	ı	ı	1	0.0	2.9	9.5	2.3	0.0	۳° ۳°	2.4	9	32.9	
AD MICA	MAY	0		13.8	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.2	2.8	3.0	3.0	0.0	0.0	0.0	0.0	0.0	5.7	25.5	3.1	12.0	0.0	8.9	6.2	2.8	0.0	2.9	11.6	2.8	2.8	2.8	0.0	5.7	0.0	0.0	0.0	14.4	14.5 7.5	0.0	
Throng	APR.	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	0.0	0.0	0.0	5.9	3.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	1	11.6	19.7	9.8	0.0	11.2	1	1	1	ı	ı	0.0	0.0	0.0	0.0	2.8	0.0	0.0	900	2.8	
*	MAR.		ı	1	ı	1	ı	ı	0.0	0.0	0.0	ı	ı	ı	1	ı	ı	ı	1	0.0	1	0.0	0.0	0.0	0.0	0.0	4.5	0.0	1	5.6	1	2.2	1	ı	1	ı	1	0.0	0.0	0.0	0.0	0.0	0.0	0.	† · ·	0.0	
	FEB.			0.0	1	0.0	1	0.0	0.0	ı	0.0	0.0	0.0	ı	0.0	ı	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	i	0.0	ı	0.0	1	ı	1	ı	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1	
	JAN.	0	•	0.0)	0.0	1	0.0	0.0	ı	0.0	0.0	ı	ı	1	ı	ı	ı	ı	0.0	0.0	0.0	0.0	0.0	0.0	ı	1	ı	ı	ı	ı	1	ı	ı	ı	1	ı	1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	
	Z.	60.0	200	70.0	75.0	80.0	85.0	0.06	35.0	45.0	50.0	55.0	0.09	65.0	70.0	75.0	80.0	85.0	90.0	28.0	32.0	37.0	45.0	50.0	55.0	0.09	65.0	70.0	75.0	80.0	85.0	0.06	100.0	110.0	120.0	130.0	145.0	28.0	30.0	35.0	40.0	45.0	50.0	55.0	0.09	70.0	
	STATION	0 20	83.0	83.0	83.0	83.0	83.0	83.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	90.06	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	0.06	0.06	90.0	90.0	0.06	0.06	90.0	0.06	0.06	93.0	93.0	93.0	93.0	93.0	93.0	0.0	0.00	93.0	

TABLE 4. (cont.)

			T	Triphoturus mexicanus	rus mex	canus	(cont.	•				
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	ocr.	NOV.	DEC.
0				0.0	12.1	2.8	5.4	0.0	13.6	i	ı	i
93.0 80.0	0.0	0.0	5.3	11.4	2.7	7.6	3.4	0.0	5. 4.	8.4	0.0	0.0
93.0 85.		1	ı	0.0	12.5	6.2	80	33.7	0.0	ı	ı	1 0
		0.0	0.0	0.0	12.4	3.8	0.0	25.8	0.0	L	t i	0.0
_		1 4	1 6	í	1 4	1 6	1 6	1 :	13.0	7 21	1	
		0.0	0.0	1 0	0.0	6.2		11.1	1 1	10.0	1 1	ı ı
		0.0	0.0	•	0.0	1.21	9.7	7.67	1 1	C 71		ı
		0.0	0.0	0.0	0.0		70.00	ייני				. 1
		0.0	0.0	0.0	15.0	24°3	1000	21.0	1 1	0 0		1
		0.0	0.0	2.0	0.0	3.5	7.0	7.7	1	7.4.0		۱ ۱
		0.0	0,	0.0	14./	1.00	0.0	. u	1	1.0		ı
		0.0	15.4	1 4	200	20.02	1 5	10.5	1		. !	
		0.0	0.0	0.0	, c	100,	6.24	32.3	1	14.0		
			t	0.0	,,	10.0	7.0	11.0	1	1		1 1
			ı	9.77	, , ,	9.0	20.00	14.5	1 1	0.1	1	
			ı	7.67	7.0	10.2	7000	7.0.0	l I	0		1
			r	0.0	0.0	7.0	200	יין איני		0 1	۱ ۱	۱ ۱
			ı	200	200	0.0	2.0	22.7		100	۱ ۱	۱ ۱
			1 1	2.8	0.0	0.0	16.5	0.77	ı	13.2	ı	L
			0.0	0.0	3.2	11.0	0.0	46.9	ı	0.0.		1
			0.0	0.0	0.0	, c	0.0	1.67	1	7,0	1	1 1
			0.0	0.0		5.4°	ກໍເ	40.0	1 :	200	ı 1	1 1
			13.0	ກໍຕ	0.0	300	0.0	14.4	1 1	705.2		
			0.0	7:7	יי היי	33.7	L0.1	000	1 1	142.5		
			0.0	7.0	7.07	7.01	7.00			A 2 A	ı	1
			4.0	2.0	22.0	12.4	107.1	200	ı	11.6	1	1
			٥	ο α	.00	20.5		8 4 8	ı	1	ı	1
			1	34.1	15.3	0.9	26.2	44.9	ı	0.0	ı	ı
			1	85.8	15.1	17.9	6.5	15.9	ı	ı	1	ı
			ı	11.0	5.6	16.7	12.3	10.1	ı	8.6	ı	ŧ
			1	5.5	0.0	13.0	3,3	15.7	ı	1	ı	ı
			ı	2.8	9.9	3.0	9.9	0.0	1	4.7	ı	ı
			ı	1	1	1 -	ı	1 0	ı	2.5 6.5	i	ı
			0.0	0.0	0.0	0.0	ı	13.9	ı	13.7	ı	ı
			8° 8	24.9	0.0	8.7	1	17.6	ı	7.1.Z	ł	1
			2.5	5.6	43.4	8.0	1	20.9	ı	5.9	ı	ı
			0.0	4.8	81.1	5.7	31.7	48.1	ı	73.3	ı	ı
			0.0	2.8	34.1	139.2	56.0	129.3	ı	78.1	ı	1
			0.0	8.7	0.0	42.3	11.4	60.4	ł	48.2	ŧ	ı
103.0 60.	0.0	0.0	0.0	23.8	38.4	113.6		116.6	1	6.6/	1 1	1 1
					0.0	40.1	10.7	102.0	ı	C L	1	1
			0.0	0,0	0.0	0.0	7.7.	5.5		ا ن ب	1	1
			1 9		٦. ۲.		14.2	13.0		•	1	1
	0.0		0.0	0.7	1.0		40.0	25.3		٥	1	•
		ı	•	0.0	11.3	0.0	0 . / 4	7.07	ı			

	DEC.	1 1	ı	1 1	ı ı	ı	ı	ı	ı	ı	ı	I	1	•	ı	ı	ı	ı	ı	ı	1 1	1	ı	ı	1	i	1 1	ı	8	ı	ł	1 (1	1	1	ı	ı		1	ı
	NOV.	1 1'	١	1 1		ł	1	ı	ı	ı	ı	ı	1		ı	1	ı	ı	ı	ı	1 1	1 1	1	ı	ı	ı	1 1	ı	ı	1	ı	1 1	1	1	ı	1	ı	ı	1 1	ı
	OCT.	6.0	12.6	52.6	63.6)	9.4	ı	14.1	1 :	24.2	1 1	0.17		19.9	17.2	58.8	25.6	9.99	10	0.0	0.0) 	0.0	0.0	31.2	11.8	46.1	15.5	5.1	,	1.8	6	1	18.4	ı	ı	1 0	1.9	10.9
	SEP.	1 1	ı	1 1	ı ı	ı	ŀ	ı	ı	ı	ı	ı	1 0	26.9	8.0)	ı	ı	ı	t	1 1	1 1	1	1	6.3	97.9	1.677	1	ı	i	i	1 1	1	ı	ı	2.4	57.8	111.4	0.0	39.8
•	AUG.	6.6	204.5	197.3	43.7	28.6	3.2	19.6	98.2	72.5	149.0	1 KD . 1	100.0	0.00	57.2	20.9	101.1	80.2	210.4	88.	12.6	20.0	. 1	ı	4.8	90.4	58.7	29.3	21.3	49.0	57.4	198.3	150.9	1	ı	ı	1	1 0	26.7	20.4
(cont.	JULY	70.5	8.5	13.8	16.1	26.2	246.5	306.6	119.1	41.3	22.0	29.5	900	26.0	11.3	10.2	10.2	51.4	27.4	16.9	78.9	115.1	344.5	415.2	1 9	140.3	164.7	32.9	20.8	18.0	117.0	112.5	187.7	117.0	29.4	1	ı	1 •	22.8	10.6
cicanus	JUNE	0.0 19.5	9.5	20.5	6.1	27.3	0.0	3.0	2.6	0.0	ຕຸດ	2,0	14°0	3,0	14.6	8	16.0	5.7	7.9	11.3	0.0	16.5		11.6	0.0	58.0	130.1	142.4	141.5	13.5	28.2	64.5	28.8		37.8	1	ı	1 0	2.6	17.8
Triphoturus mexicanus	MAY	14.9	102.7	182.4	12.5	0.0	0.0	14.9	22.1	6.1	0.0	o c	7.0	35.6	35.4	18.8	21.3	14.8	14.8	0.0	19.7		9.0	2.9	2.8	34.2	7.5	27.0	11.4	2.9	48.5	14.3	0 0		6.1	1	ı	1 0	10.5	0.66
riphotu	APR.	8.3	10.0	0,0		2.5	11.1	0.0	0.0	0.0	0.0	0.0	0.0	•	4	12.8	53.8	14.8	27.1	11.3	13.5	15.0	0.0	1	0.0	7.67	48.7	28.7	37.0	47.5	21.2	20.6	7.0		0.0	1	ı	10	0.0	12.4
I	MAR.	0.0	2.6	5.6	0.0	0.0	0.0	1	0.0	1	0.0	1	1 0				19.2	5,5	2.7	0.0	0.0	0		0.0	0.0	29.7	14.1	64.0	53.7	13.7	0.0	0.0	0)))	1	1	ı	1 6	0.0 0.0	21.4
	FEB.	0.0	0.0	0.0	•	0.0	0.0	,	1	ı	ı	ı	1 4	•		2.7	6.2	0.0	0.0	8.0	0.0	0		0.0	0.0	3.1	2 2	0.0	5.5	0.0	0.0	0.0	1 1	ı	ı	ı	i	1 4	2.6	0.0
	JAN.	00	0.0	0.0	•	0.0	0.0		0.0	ı	0.0	1 9	0.0				0.0	0.0	0.0	1 4	0.0	C)))	0.0	0.0	0.0	10	0.0	0.0	0.0	1 0	0.0	c 1 c	٥	0.0	1	t	1 9	0.0	0.0
	N	90.0	35.0	40.0	0.04	50.0	60.09	65.0	70.0	75.0	80.0	85.0	90.0	35.0	40.0	45.0	50.0	55.0	0.09	65.0	70.0	80.0	85.0	90.0	30.0	35.0	45.0	50.0	55.0	0.09	65.0	70.0	0.0%	8.50	90.06	30.0	35.0	40.0	30.0	35.0
	STATION	103.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	10/0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	113.0	115.0	115.0	115.0	117.0	117.0

TABLE 4. (cont.)

DEC.	1 1	ı	ı	1	1 1	ı	1	1	ı	ı	ı	ı	ı	ı	ı	1 1	ł ł	ı	ı	1 1	1	1	1	ı	ı	1 1	1	1	ı	ı	L	1 1	1	i	ı	1	ı	1	1
NOV.		ı	1	ı	1 1	ı	1	1	ı	ı	ı	ı	1	1	1	1 1		1	1	1 1	1	ı	ı	ı	ı	1 1	I	1	ı	1	L	; I	1	ı	ı	ı	ı	1	1
OCT.	31.3	2.7	15.6	60.4	1 0	ָ ס י	6.1		2.7	11.4	ı	í	ı	0.0	0.0	•	2.5	2.8	, 8 8	10.7	0°0	16.2	1	2.7	1 5	11.4	1	14.0	5.4	5.2	1.8°C	40°0	֖֖֖֖֝֝֜֝֝֞֝ ֓֞֞֞֞֓֞֞֞֞֞֜֞֞֞֜֞֞֞֓֓֞֞֞֞֓֓֞֞֞	38.1	0.0	11.7	6,2	24.0	54.5
SEP.	82.6	1	ı	ı	1 1	ı	ı	ı	ı	5.0	16.7	5.2	14.9	ب ش و	7.7	7.7	, v	8.0	ı	1 1	1 1	1	1	ı	ı	1 4	15.5	25.7	34.9	13.1	ı	1 1	1	1	8.1	23.1	38.1		ı
AUG.	35.8	195.0	106.0	69.0	157 4	168.1	427.8		1	93.6	ı	ı	ı	14.9	0.0	0.0	10.2	156.6	61.4	66.6	56.1	50.0	20.9	43.0	ı	1 1	1 1	115.4	19.5	1 9	72.5	50.00 50.00	0.0	80.5	0.0	2.7	12.9	20.07	166.3
JULY	23.0	29.6	19.0	9.0	102 0	707	2.8	21.8	69.4	17.4	ı	ı	1	2°6	0.0	0.0	0.0	9.4	5.6	9.0	10.0	1.69.	359.6	87.7	15.4	3/.5	ł I	3.9	13.6	18.3	52.3	4.22 ا 1.33	222.2	169.3	0.0	0.0	28.0	44.0	53.8
JUNE	37.8	23.2	44.0	36.1	80.6	6.40	24.0	31.2	50.2	104.6	ı	ı	ı	13.5	0.0	2.7	4.0	30.0	113.2	41.8	36.1	14.9	0.0	0.6	70.3	3.1	1	17.5	8.9	11.8	271.7	91.4		49.0	0.0	5.4	63.1	141.1	121.4
MAY	5.3	74.9	136.2	11.8	۳ د د د	ס	6.0	23.5	0.0	24.6	ı	1	ı	ı	1	1 1	יז ה	103.0	6.96	22.2	50°4	יי ייי)) 	31.4	50.1	/9/	1 1	0.0	68.1	7.4	53.5	15/./	000	81.4	6.7	2.6	5.7	7.4.4	48.3
APR. MAY JUNE	222.6	33.4	26.8	25.6	54°5	, ,		18.3	11.2	37.0	ı	ı	ı	0.0	0.0	0.0) e	18.2	41.1	171.4	41.0	17.1	5.3	0.0	0.0	8.1	۱ ۱	1	1	ı	ı	1 1	1 1	1	ı	ı	ı	1	
MAR.	69.9	11.4	0.0	0.0	800	•	2.8) 	ı	78.3	ı	1	١	0.0	0.0).).	0.0	23.2	8.4	90		0 00	1	3.0	1 0	7.6	1	2.7	3.0	11.0	16.3	1/.9	0	1	0.0	12.0	26.4	1.17	7.9
FEB.	0.0	0.0	2.8	0.0	9.4	۰ ۱	1	ı	ı	0.0	ı	ı	ı	0.0	0.0	0.0	0.0	0.0	9.8	0.0	70	0.0))) 	2.9	10	0.0	1 1	11.9	2.8	0.0	0.0	•	0.1	1 }	2.9	2.9	œ ،	4.0	3.0
JAN.	2.8	0.0	0.0	0.0	10	0 1	0) 	0.0	0.0	ı	ı	ı	0.0	0.0	0.0	2.0	0.0	8.3	0.0	0 1	0.0))))	0.0	1 0	0.0	1 1	0.0	0.0	0.0	1	1 0	0.1	0-0	0.0	0.0	2.3	0.0	1
N	40.0	50.0	55.0	0.09	65.0	75.0	80.0	85.0	90.06	39.0	25.0	30.0	35.0	33.0	25.0	30.0	40.0	45.0	50.0	55.0	65.0	20.02	75.0	80.0	85.0	0.00	30.0	37.0	42.0	45.0	50.0	0.00	0.00	70.0	34.0	40.0	45.0	0.00	55.0
STATION	117.0	117.0	117.0	117.0	117.0	117.0	117.0	117.0	117.0	118.0	118.5	118.5	118.5	119.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.7	123.0	123.0	123.0	123.0	123.0	122	123.0	127.0	127.0	127.0	127.0	12/00

TABLE 4. (cont.)

DEC. NOV Š 11001111111111111111111111 SEP (cont.) JULY Triphoturus mexicanus 54.2 74.8 0.0 663.1 10.4 11.1 53.6 APR. 11400190941 0000000 0. STATION 11277.0 11330.0 11330.0 11330.0 11330.0 11330.0 11333.0 11333.0 11333.0 11333.0 11333.0 11333.0 11333.0 11333.0 11333.0 11333.0 11333.0 11440.0 11440.0 11440.0 11433.0 11433.0

TABLE 4. (cont.)

				T_1	riphotu	rus mex	Triphoturus mexicanus	(cont.	_				
STATION	2	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
143.0	55.0	0.0	1	1	0.0	1	1	ı	9.2	1	1		
143.0	0.09	0.0	1	1	0.0	ł	ı	ı	17.4	1	ı	ı	ı
143.0	70.0	1 9	ı	ı	1 4	1	ı	1	21.5	ı	í	ı	ı
147.0	25.0	0.0	ı	ı	0.0	ı	ı	ı	2.2	t	ı	ı	ı
147.0	30.0	2.8	ı	ı	0.0	ı	ı	ı	0,0	ı	ı	ı	ı
147.0	40.0	0.0	ı	ı	2.9	ı	ı	ı	7.7	ı	ı	ı	ı
14/.0	45.0	0.0	Į	ı	ຄຸດ	ı	ı	1	5.0	ı	1	ı	t
147.0	50.0	0.0	ı	ı	0.0	1	ı	ı	48.5	ı	ı	1	ı
147.0	55.0	0.0	ı	ı	0.0	ŧ	ı	ı	14.6	ı	ı	ı	ı
147.0	0.09	0.0	ı	ı	5.8	ı	ı	ì	1.0	1	1	i	ı
150.0	19.0	0.0	ı	ı	ı	ı	1	ı	4.0	1	ı	ı	i
150.0	25.0	0.0	ı	1	1	ı	ı	ı	7.4	ı	ı	1	ı
150.0	30.0	0.0	ı	ı	ı	ı	ı	ı	3.0	ı	ı	ı	1
150.0	35.0	0.0	1	ı	ı	ı	ı	1	1.3	ı	ı	ı	1
150.0	40.0	0.0	ı	ı	ı	ı	ı	ı	1.6	1	ı	ı	ı
150.0	50.0	0.0	ı	ı	ı	1	ı	ı	2.3	ı	ı	1	ı
150.0	55.0	0.0	ı	ı	ı	ı	ı	1	27.8	ı	ı	ı	ı
150.0	0.09	0.0	ı	ı	1	1	1	1	2.0	ı	ı	ı	ı
153.0	16.0	0.0	ı	ı	i	ı	ı	1	1.7	ı	ı	ı	ı
					Di	ogenicl	Diogenichthys spp.	Ď.					
STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.07	0.00	0.0			0	0 0		0		1	2 9		1
200	0.00		0	1			0		0	1	, 0	•	•
87.0	70.0) - -	0.0	ı	90	000		0.0	000	ı			
87.0	75.0	1	1	1	0.0	0.0	0.0	1	, c	ı)))	1	ı
87.0	80.0	ı	0.0	ı	0.0	0.0	0.0	0.0	3.2	1	0.0	١	1
87.0	0.06	ı	0.0	ı	2.8	0.0	0.0	0.0	0.0	ı	0.0	ı	ı
90.0	55.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.06	0.09	1	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	70.0	ı	0.0	2.7	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0
90.0	0.08	ı	0.0	5.2	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	90.0	1 0	0.0	2.2	0.0	0.0	1 4	0.0	3.0	0.0	0.0	1 9	0.0
0.0	260.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.00	75.0	1 6	1 0	1 6	•			•	0.0	1.8	1 0	ı	ı
0.70	0.0	•	•	0.0		•	•		0.0	1	•	ı	ı
0.70	20.02	0.0		0 1	•	000	•	•	2.0	1 1		! !	1 1
97.0	80.0	0		t						1		1	1
100.0	45.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	1	0.0	1	1
100.0	80.0	0.0	2.6	1	0.0	0.0	0.0	0.0	0.0	ı	0.0	1	1
100.0	0.06	0.0	0.0	1 6	0.0	0.0	0.0	0.0	۳. د.	ı	0.0	ı	1
103.0	45. 57.0		0.0	•		0.0	0.0	0.0	0.0	1	2,0	1	1 1
103.0	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0		1.7	ı	ı

	DEC.	111	1	ı	1 1	1	ı	ı	1 1	ı	ı	ı	1	1	ı	1	ı	ı	ı	L	1 1	ı	ı	ı	ļ	ı	ı	1	1 1	l	1	ı	ı	ı	1	1 1
	NOV.	1 11	1	1	1 1	1	ı	ı	1 1	ı	ı	ı	1	1 1	ı	ı	ŧ	1	t	ı	1 1	1	ı	ı	ı	i	ı	1	1 1	1	1 1	1	ı	ı	1	1 1
	oct.	0.00	2.0	0.0	D	12.1	ı	9.0		2.5	ı	0.0	0.0	2.6	1	0.0	ı	0.0	0.0	0.0	0.1	0-0	0.0	0.0	0.0	1 1	0.0	0.0	0.0			0.0	0.0	1 9	0.0	0.0
	SEP.	1 1		ı	1 1		1	1 6	7.7	ı	1	18.8	ı	۱ ۱	ı	ı	ı	ı	ı	ı	1 1	1	0.0	0.0	ı	ı	ı	ı	1 9))))	ı	ı	1 4	0.0	0.0
	AUG.	000	000	0.0	1.5.	12.2	16.3	6.1	0.0	0.0	0.0	8.3	w c	2.0	3.0	16.3	6.2	6.4	1.6	0.0	23.6	26.2	9.4	8.7	8.0	۳ ۳	5.7	8.0	1 0	, מ ה	200		0.0	5.8	0.0	000
cont.)	JULY	0.0	0.0	0.0	•	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	•		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	•	000	0.0	0.0	0.0	93.4
Diogenichthys spp. (cont.	JUNE	000	0.0	0.0		0.0	0.0	0.0	•	0.0	0.0	0.0	0.0	•		2.5	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	٠, ١,	0.0	3.0 7.0	22.2	7.3	0.0	2.7	23.7
ichthys	MAY	0.00	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	•		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	2.8	0.0	0.0		0.0	000	000	0.0	0.0	0.0	00.0
Diogen.	APR.	000	000	2.6	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	•	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	1 1	1	ı	ı	ı	1-1
	MAR.	0.0	0.0	0.0	0.0	0.0)	1 4	0.0	00		0.0	0.0	0.0		0.0		0.0	0.0	0.0	0.0	1 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	000	000	0.0	1	0.0	0.0
	FEB.	0.0	0.0	0.0	ì		ı	1	0.0	0.0		0.0	0.0	000	•	0.0	1	1	0.0	0.0	0.0	i	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	000		0.0	,	0.0	0.0
	JAN.	0.00	000	0.0	0.0	0	0 1	0.0	0.0	000	1	1	0.0	0.0	0.1	0.0		0.0	0.0	0.0	0.0	1 0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	1 1	0.0)	0.0	0.0
	STATION	103.0 70.0	103.0 90.0		0.0	107.0 80.0	0			110.0 70.0		113.0 40.0	113.0 45.0	113.0 50.0	113.0 66.0	113.0 70.0	113.0 75.0	113.0 80.0	117.0 55.0	117.0 60.0	117.0 70.0										123.0 42.0		123.0 60.0		4	4.0

TABLE 4. (cont.)

DEC. MOV. SEP 0.000 AUG. Diogenichthys atlanticus 110000 JOINE 111111010440111111044800001407400000411 MAY APR. MAR FEB. JAN STATION 550.0 663.0 777.0 773.0 777.0 77

BC. DEC. 1111111 1 1 1 1 1 1 1 0088000 SEP SEP -00000m Diogenichthys atlanticus (cont.) JULY JULY 000000 laternatus JUNE JUNE 0000000 0000000 Diogenichthys 0000000 MAY 000000 APR. APR 1000000 000 00 0 0 0000000 0.00000 000 000 00000 0000000 0000000 EB FEB. 101111000000000 000000 8000860 110000 1110000 135000 140000 140000 140000 140000 140000 1400000 140000 140000 140000 140000 140000 140000 140000 140000 1400000 140000 140000 140000 140000 140000 140000 140000 140000 1400000 140000 140000 140000 140000 140000 140000 140000 140000 1400000 140000 140000 140000 140000 140000 140000 140000 140000 1400000 1400000 140000 140000 140000 140000 140000 140000 140000 140000 1400000 140000 140000 140000 140000 140000 140000 140000 140000 1400000 140000 140000 140000 140000 140000 140000 140000 140000 1400000 140000 140000 140000 140000 140000 140000 140000 140000 1400000 14000 55.0 32.0 35.0 50.0 50.0 STATION STATION 97.0 00.0 07.0 07.0

TABLE 4. (cont.)

	DEC.		
	NOV.		
	OCT.	22.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 29.00 10	
	SEP.	1 1 1 1 0 0 1 1 1	
t.)	AUG.		
s (cont.	JULY	N.N.B.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.	,
ernatu	JUNE		,
Diogenichthys laternatus	MAY		
genicht	APR.		1
Dio	MAR.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	FEB.	000000000000000000000000000000000000000	
	JAN.	22000000000000000000000000000000000000	
	STATION	107.0 10	

DEC.	
NOV	
OCT.	4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
SEP.	1.44 1.425111111111104 1.6000 1.6000 1.6
AUG.	10000000000000000000000000000000000000
JOLY	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
JUNE	2 2 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
MAY	2 1 2 1 2 1 3 1 1 1 2 1 2 1 3 1 1 1 1 2 1 3 1 1 1 1
APR.	13.9 1.2.0 1.2.0 1.3.9 1.3
MAR.	2000 2000
FEB.	00.00 00
JAN.	2.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
N	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
STATION	1177.0 12

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tuo.	
Jatornatue	racettacar
ひょうなられずんわけから	Projection and a

	DEC.		1		ı				ı	ŧ	ı	ı	ı	ı	ı	ı	1	ı	ı	i	ı	ı	ł	ı	ı	ı	1	ı	ı	ı	ı	ı	1	ı	ı	ı	ı	ı	i	ı	ı	1	ı	ı	1	!		ł
	NOV.		1	1	ı				ı	ı	i	t	ı	ı	ı	ı	ı	1	1	1	ı	1	1	1	١	1	ı	1	ı	ı	ı	ı	ı	ı	ı	ı	I	ı	ı	1	ı	ı	1	ı	ı	ı		
	ocr.	88 2	7 C V		2 7		•	•	0.0	0.0	8.1	0.0	7.6	11.1	ı	22.5	ı	ı	ı	ı	ı	1	1	1	1	ı	ł	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	i	ı	1	ı	ı	ı	i	ı	ı		
	SEP.			ı	1	0		••	i	ı	ı	ı	1	ı	ı	ı	1	ı	1	ı	1	1	1	1	ı	1	ı	ł	ı	ı	ı	1	ı	ı	1	ı	ı	í	ı	ı	1	ı	1	ı	1	ı		
(•)	AUG.	0			0	, ,	C - T		0.0	0.0	0.0	5.3	6.0	ı	ı	ı	ı	0.0	17.4	0.0	α -	11.6	0.7	. 4		2.3	5.0	0.0	2.3	13.5	1.8	33.0	4.3	2.0	4.9	2.1	7.6	3.9	1.5	1.0	4.0	12.9	11.0	30.2	6	י ני ני	1	
י ורחוורי	JULY	0		7	7.0	7.0	•	0.0	0.0	0.0	·	122.5	38.0	21.1	16.5	5.4	5.4	1	1	ı	i	ı	ı	ı	ı	ı	ı	i	1	i	ı	ı	ı	t	ı	ı	ı	1	ı	ı	ı	ı	1	ŧ	1	1		1
בדוזמרתי	JUNE						000	٠	٠				ı	1	1	ı	ı	ı	ı	ı	1	ı	ı	ı	1	1	1	1	ı	ı	1	1	ı	ı	1	ı	ı	1	ı	ı	ı	ı	ı	ı	ı	ı		1
uys ran	MAY			1	l	1	1 4	0.0	0.0	0.0	19.8	20.2	ı	1	1	ı	ı	ŀ	ı	ı	1		ı		ı	1	ı	ı	ı	ı	1	ı	ı	ı	ı	ı	ı	1	ı	ı	ı	ı	ŀ	ı	1	1		
progenitionings racetinates	APR.	1	0.0	40.3	1	1 0	2.0	13./	70.1	15.9	8.4	10.7	21.6	42.2	1	2.8	16.7	2.8	23.7	ı ır	,,,	17:5	1		200	300	21.0	2.9	15,3	0.0	1	0.0	7.1	0.0	0.0	0.0	14.2	20.0	6.1	0.0		ı	ı	ı	1	ı		
OTA	MAR.		1	ı	ı	1 4	٠	11.8					ı	1	ı	ı	ı	ı	ı	ı		í				- 1	ł	,	ı	ı	ı	1	ı	ı	ı	ı	ı	1	ı	1	ı	ı	ı	ı		1		
	FEB.		ı	1	ı	1 4	0.0	0.0	0.0	0.0	0.0	0.0	1	ı	ł	i	ı	ı	1					1 1	1 1	. 1	1	ı	ı	ı	1	ı	1	ı	ı	ł	ı	1	ı	ı	1	1	ı	ı	1	1		
	JAN.		7.0	14.0	ı			7.7	٠	٠.	4.5	0.0	2.1	0.0	. 1	0			,,		•	•	•	•	•	•			0.0	0.0	1	2.1	4.0	0.0	3.0	0.0	0.0	2.6	2.5	0.0	4.7				***	•	7 .0	
	z		55.0	0.09	65.0	70.0	36.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	20.02	0.00	30.0	20.00	000	0.04	0.0	0.00	0.00	20.00	0.0	45.0	0.05	55.0	0.09	70.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	0.09	10.0	25.0	20.04	42°C	0.0	0.0	0.00	0
	STATION		133.0	133.0	133.0	133.0	134.0	137.0	137.0	137.0	137.0	137.0	137.0	137.0	137.0	137.0	137.0	140	0.041	0.0	140.0	140.0	140.0	140.0	143.0	142.0	143.0	143.0	143.0	143.0	143.0	147.0	147.0	147.0	147.0	147.0	147.0	147.0	147.0	147.0	150	100	150.0	150.0	0.04	0.00	0.00	

TABLE 4. (cont.)

			Dic	genich	thys la	Diogenichthys laternatus	s (cont.)	t.)				
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
153.0 25.0	0.0	-		ı	ı	1	1	9.4		-	1	1
	4.7	ı	ı	ı	ı	ı	ı	ı	ı	1	ľ	1
153.0 80.0	2°8	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı
	29.7	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı
	6.4	ı	i	i	i	ŧ	i	ı	ı	ı	ı	ı
	2.5	ı	ı	ı	ı	ı	ı	ı	ı	i	ı	ı
	4.6	ı	1	ı	ı	ı	ı	ı	1	ı	ı	ı
	2.3	ı	ı	ı	1	ı	1	ı	1	ı	ı	ı
	2.4	ı	ı	!	1	ı	ı	ı	ı	ı	ı	ı
	2.4	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı
	18.1	ı	ı	ı	ı	ı	ı	1	ı	ı	ı	ı
				E	lectron	Electrona rissoi	į					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 120.0					14.5							
93.0 65.0	ı	1	ı	2.8	0.0	0.0	0.0	0.0	0.0	ı	ı	ı
				Goni	Gonichthys	tenuiculus	snlı					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JOLY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0 75.0	1	ı	ı	0.0	0.0	6.1	0.0	0-0		1	1	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ı	2.8	ı	1
	1 0	1 0	1 0	2.8	0.0	0.0	0.0	0.0	ı	1 0	ı	ı
107.0 50.0	8.0	•	0.0	0.0	0.0	0.0	0.0	0.0	1 (0.0	1 1	1 1
		000	000	0.0		000	200		1) 	1 1	1
	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	1	0.0	ı	1
	ı	1	1	0.0	0.0	0.0	2.9	0.0	ı	1	ı	1
	0.0	ı	2.4	0.0	0.0	0.0	5.5	0.0	ı	2.8	ı	ı
	1 0	ı	1 0	0.0	0.0	0.0	2.0	0.0	ı	1 0	ı	ı
	0 1		0.0	•	•	0.0	8.0	200	1 1	۰ ۱	1 1	1 1
	ı	0.0	0.0	0.0	0.0	0.0	0.0	3.5	1	1	ı	ı
	0.0	0.0	0.0	0.0	3,3	0.0	0.0	0.0	1	0.0	ı	ı
	1 0	1 0	1 0	0.0	0.0	0.0	2.8	0.0	I	1 (ı	1
110.0 90.0	0.0	0.0	0.0	10	0.0	0.0	4. c	10	1 0	0.0	1	t I
	000	2.5					, w		0.1		1 1	1 1
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	2.7	ı	ı
113.0 55.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	ı	0.0	ı	ı
	o 1	0.0	0.0	0.0		000) C	0.0	1 1	0.1	1 1	1 1
	0.0	3.1	0.0	0.0	0.0	0.0	3.0	0.0	ı	0.0	ı	ı

TABLE 4. (cont.)

NON SEP (cont.) Gonichthys tenuiculus 0 10000 10 100000 1 1000000 1 1000000 1 1040000 1 104000 1 104000 1 104000 1 104000 1 104000 1 104000 1 1040000 1 104000 1 104000 1 104000 1 104000 1 104000 1 104000 1 104000 1 104000 1 104000 1 104000 1 104000 1 104000 1 104000 1 1040000 1 104000 1 104000 1 104000 1 104000 1 104000 1 104000 1 1040000 1 104000 1 104000 1 104000 1 104000 1 104000 1 104000 1 10400 00000 E 000800100441010800110100001101084881104044 STATION 11133.00 11133.00 11117.00 11117.00 11117.00 11117.00 11117.00 11177.00 110

			Ö	onichtl	Gonichthys tenuiculus	iculus	(cont.)	~				
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JOLY	AUG.	SEP.	OCT.	NOV.	DBC.
134.0 35.0	0.0	0.0	0.0	0.0		•	•	•	•	•	ł	
13/.0 23.0	0.0	0.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ı	1
137.0 30.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	1	0.0	0.0	í	ı
137.0 35.0	2.8	0.0	5.9	0.0	0.0	0.0	0.0	0.0	ı	2.5	í	1
137.0 40.0	0.0	0.0	2.9	10.6	0.0	0.0	0.0	0.0	í	0.0	ı	ı
137 0 45.0	0	0	5.9	0.0	2.5	0.0	0.0	0.0	ı	0.0	ı	ı
		•	,		1)		0	1	
137.0 60.0	0.0		,	0.0	ı	ı	•	ı		0.0	l	l
137.0 70.0	2.2	ı	t	0.0	ı	ı	0.0	ı	ı	0.0	1	ı
137.0 80.0	0.0	ı	ı	2.8	1	1	0.0	1	ı	ı	1	1
140 0 35 0		1	ı	201	,	1	1	0	ı	1	ı	•
				120		1	1	9	í	1	8	
	0.0	ı	I	7:0	ı			•				
	0.0	ı	1	7.5	ı	ı	ı	0.0	ı	ı	i	ı
	0.0	ı	1	0.0	1	ı	ı	1.6	ı	1	ı	1
	0	1	1	2.6	1	1	1	0.0	ı	ı	ı	i
	10		1	000		1						1
		ı	1	9 0								
	7.6	1	t	70.7	ı	1	ı	0.0	ı	1	ı	ı
0	1.7	ı	ı	2.6	ı	ı	ı	0.0	ı	ı	1	ı
_	2.5	1	ı	0.0	ı	1	ı	1.7	ı	ı	ı	ı
		1	1		ı	1	ı		ı	ı	•	1
				•				9 5				1
	ı	ı	1	1	ı	ı	ı	7 · 8	ı	i	ı	ı
	0.6	ı	ı	0.0	ı	1	ı	0.0	ı	ı	1	,
	0.0	ı	ı	0.0	ı	1	ı	2,1	ı	ı	ı	ı
	2 1	ı	ı	5.7	1	1	1	0.0	ı	1	ı	ı
	2			200	ı	ı	1		1	1	ı	1
	9 9			, ,						!		1
	4.5	ı	ı	1.6	ı	ı	ı	0.0	ı	1	ı	1
	0.0	1	1	0.0	ı	ı	ı	1.0	ı	1	ı	ŧ
150.0 45.0	2.4	1	ı	ı	ı	1	ı	0.0	ı	ı	ı	ı
	2 0	ì	ı	1	1	,	1	ı	1	ş	ı	1
	,,,				1		1	1	1	ı	1	ı
13/.0 30.0	2.5	1	ì	ı								
	7.6	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı
157.0 50.0	2.6	ı	ı	ı	ı	ı	ı	t	ı	ı	ı	ı
157.0 55.0	2.4	ı	ı	ı	1	ı	1	ı	ı	1	ı	t
					Hygoph	Hygophum spp.						
CHATTON	MAL	T. T	MAD	do a	MAV	TUNE	м.пп.	DIA.	CED	E-C-C	MON	DBC
STRITON	Oran	r EDO.	- NEW	DEN.	IUU	CONTRACT	TOO			3		
90.0 120.0	ı	1	ı	1	5.9	t	1	ı	0.0	1	ı	1
03 0 00 0	2 7	0	0	0		0	0	0		1	,	0.0
	7 . 7	•	0.0	•	•				•	•		•
٠,	0.0	0.0		0.0	0.0	0.0	0.0	0.0	1	2.3		ı
	0.0	ı	0.0	5.6	0.0	0.0	0.0	0.0	ı	0.0	ı	ı
	2.4	1	0.0	0.0	0.0	0.0	0.0	0.0	ı	0.0	t	ı
107.0 90.0	0.0	ı	1	0.0	0.0	0.0	0.0	0.0	ı	5.6	1	1
	0	0.0	0.0	0	0.0	0.0	0.0	0.0	ı	2.5	í	ı
		0	200					0	ı	0.0	ı	ı
. 0	0.0	5.4	0.0)	0.0	0.0	0.0))	ı	0.0	i	ı

	DEC.	1 1	ı	1	1	ı	1	1	1	ı	ı	t	ı	ı	ı	ı	1	I	ı	ı	1	ı	ı		ı	ı	1	ı	ŧ	ı	ı	ı	1 1	1	. !	t	l	ı	1	ı	1	1 1	1	I
	NOV.	1 1	1	1	1	ı	ı	ı	1	ı	ŧ	t	ı	1	ı	ı	ı	ı	ı	ı	ı	ı	1	1 1	1	ı	1	1	1	1	ı	ı	1 1	1 1		ı	1	ı	ı	ı		i I	ı	
	ocr.	2.9	1 0	0.0	٥ ا	, ru	0.0	0.0	0.0	0.0	2.5	ı	3.0	0.0	0.0	0.0	0.0	7.8	1 0	0.0	0.0	0.0	0	000		4	0.0	0.0	0.0	0.0	ı	ı	1 1	1 1		ı	1	ı	ı	ı	ı	1	ı	ı
	SEP.	1 1	ı	1	1 1	- 1	1	1	0.0	ı	ı	1	1	0.0	0.0	1	ı	ı	ı	1	2.6	ı	ı	1 1	1	ı	1	ı	ı	ı	ı	ı	1	l	ı	ı	ı	ı	1	ı	ı	ı	ı	ı
	AUG.	0.0	0.0	ų, o	90		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	7.4	2.4	I.3	0.0	٥٠	, . , .	T - 1	, c	9	7.6	5.3	0.0	1	0.0	0.0	7.0	* 0	•	0.4	0,0	7.7	0.0	L.9	0.0	٠,٠	4.0	7 • 0
cont.)	JULY	0.0	3.2	0.0	•	000	0.0	0.0	0.0	0.0	5.5	8.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		•		0.0	5.7	0.0	0.0	ı	ı	1	1 1	ı	ı	ı	ı	ŧ	ı	ı	ı	1	ı
pp. (co	JUNE	0.0	2.7	0.0	•	000	0.0	3.1	0.0	5.5	5.8	5.6	0.0	0.0	3.1	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	1	ı	0.0	0.0	ı	ı	ı	ı	1	ı	ı	i	1	ı	ı	ı	ı	ı	1	ı
Hygophum spp. (MAY	0.0	0.0	0.0			0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7	0.0	ı	ı	0.0	0.0	0.0	1	۱ ۱	1	0.0	0.0	ı	i	ı	ı	ı	1	i	ı	ı	1	1	ı	ı	ı	ı	ı
Hyg	APR.	0.0	0.0	0.0	000		0	0.0	1	1	ı	ı	1	0.0	0.0	10.8	0.0	2.3	ı	ı	0.0	0.8	0.0	0.0	, c	, , ,	0.0	0.0	3.1	12.4	0.0		10.3	היני	7.17	0.0	0.0	0.0	0.0	0.0	0.0	ł	ł	1
	MAR.	0.0	1.0	0.0	1 9	٥	0.0	0.0	0.0	0.0	ı	ı	1	0.0	0.0	9.1	0.0	0.0	ı	ı	0.0	35.5	0.0	0.0	1 1		0.0	0.0	1	1	ı	1	ı		ı	1	ı	ı	ı	ı	ı	ı	ı	ı
	FEB.	0.0	1 0	2.8	ı	1 1	0.0	2.7	0.0	0.0	ı	ı	i	2.2	0.0	0.0	0.0	0.0	ı	ı	0.0	0.0	0,0	3°T	1 1		0.0	0.0	ı	ŀ	1	ı	1	ı	1	ı	ı	ı	ı	ı	ł	ı	ı	ı
	JAN.	0.0	1 4	0.0	1 0	2°0	2.5	0.0	0.0	1	0.0	ı	0.0	0.0	0.0	0.0	0.0	2.0	ı	١	0.0	0.0	0.0	0.0		0	0.0	0.0	2.1	0.0	8.9	0.0	0.0	0.0	0.0	0.0	12.0	0.0	12.4	2.6	4.0	0.0	7-7	4.
	N	45.0	75.0																																	30.0	35.0	40.0	45.0	50.0	55.0	25.0	30.0	35.0
	STATION	113.0	113.0	117.0	117.0	117.0	120.0	120.0	123.0	123.0	123.0	127.0	127.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	133.0	133.0	133.0	133.0	133.0	122.0	137.0	137.0	137.0	137.0	140.0	140.0	140.0	140.0	147.0	147.0	147.0	147.0	147.0	147.0	147.0	150.0	150.0	150.0

TABLE 4. (cont.)

	DEC.	111111	DEC.	
	NOV.	11111	NOV.	
	OCT.	11111	OCT.	
	SEP.	1 1 1 1 1 1 1	SEP.	0.0111111111111111111111111111111111111
	AUG.	66.33	AUG.	000000000000000000000000000000000000000
nt.)	JULY		JULY	000000000000000000000000000000000000000
op) .dc	JUNE	- - - - atratu	JUNE	
Hygophum spp. (cont.)	MAY	Hygophum atratum	MAY	00%00000000000000000000000000000000000
Hygo	APR.	H	APR.	000000000000000000000000000000000000000
	MAR.	111111	MAR.	
	FEB.	111111	FEB.	
	JAN.	0.0 0.0 0.0 16.0 14.9	JAN.	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Ä	50.0 55.0 60.0 40.0 40.0 80.0	Z	88880000000000000000000000000000000000
	STATION	150.0 150.0 150.0 153.0 157.0 157.0	STATION	10000000000000000000000000000000000000

TABLE 4. (cont.)

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TABLE 4. (cont.)

				Hygopl	Hygophum atratum		(cont.)					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JOLY	AUG.	SEP.	OCT.	NOV.	DEC.
147.0 40.0	0.0	1		0.0		-		2.1		,	,	-
	0.0	ı	1	2.8	1	ı	1	2.5	ı	1	ı	ı
147.0 60.0	0.0	ı	ı	9.8	1	ı	ı	0.0	ı	ı	'n	ı
	0.0	ı	ı	ı	1	1	ı	5.6	ı	ı	ı	ı
	0.0	ı	ı	ı	1	ı	ŀ	3.0	t	ı	ı	ı
	5,3	1	ı	ı	ı	ı	ı	3.1	ı	ı	ı	ı
150.0 45.0	0.0	ı	ı	ı	ı	ı	1	6.4	ı	ı	ı	ı
	5.6	ı	ı	ı	ı	ı	ı	1.1	ı	ı	ı	ı
	0.0	1	ı	ł	ı	1	ı	9.3	ı	ı	1	ı
	8.0	ı	ı	ı	1	ı	ı	ı	1	ı	1	ı
	9.4	ı	ı	ı	ı	i	ı	ı	t	ı	ł	ı
	2.9	ı	ı	ı	ı	i	ı	ı	ι	ı	ı	ı
	2.9	ı	ı	ı	ı	ı	ı	ı	ı	ı	1	ı
	5.9	ı	ı	ı	ı	1	ı	ı	ı	ı	ı	ı
	5.0	ı	ı	ı	ı	1	ı	ı	ı	1	1	ı
	2.3	ı	1	ı	ı	ı	ı	1	ı	ı	ı	ı
	2.3	ı	1	ı	ı	ı	1	ı	ı	ı	1	ı
	7.8	ı	ı	1	í	1	1	ı	ı	ı	ı	ı
	4.8	ı	ı	ı	ı	1	1	ı	ı	ı	t	ı
157.0 60.0	2.7	ı	ı	ı	ı	ł	1	ı	ı	ı	ł	ı
	1.8	ı	ı	1	ı	ı	ı	ı	ı	ı	ł	ı
157.0 80.0	2.6	ı	ı	ı	ı	1	ı	ı	ı	ı	ı	ı
				Hyg	z mnydo	Hygophum reinhardtii	itii					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 120.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0	0.0000011000	0.0000000000000000000000000000000000000	0.0000000000000000000000000000000000000	0 0 00000000000000000000000000000000000	0001 0000000000000000000000000000000000	0 000000000	0.0000000000000000000000000000000000000	0.0000000000000000000000000000000000000	000000000000000000000000000000000000000	0.000011000	1111111111111	0.00

TABLE 4. (cont.)

	DBC.	0.01111			DEC.	ı	1 1	1		DEC.	1	1	1 1	0.0	1 0	000	3°0	1	1 1	1	i 1		1	H	ı	1 1
	NOV.	0.0	1111		NOV.	,	1 1	ı		NOV.	1	1		1	1 0	0 1	1 1	ı	1 1	ı	1	1 1	1		ı	1 1
	ocr.	00000	0.000		OCT.	1	1 1	ı		ocī.	ı	ı	0°0	2.8	1 0	0 1	1 1	2.9	0.0	6.1	0.0	0	2.0	13.4	1	000
	SEP.	0.0	0.0		SEP.	ı	1 1	1		SEP.	i	i	1 0	000	2.5	00	0.0		1 1	1	ı	1 1	1	1 1	ı	1 1
	AUG.	00000	000		AUG.	1	1 1	ı		AUG.	ı	0.0	0.0	0.0	10	000	1 1	0.0	m c	0	e 0	٥. د	0.0	0.0	5.6	0 8
	JULY	00000	0000	natum	JOLY	ı	1 1	1	um	JULY	ı	i	0.0	0.0	1 9	00	1 1	0.0	0.0	0.0	0.0		0.0	2.0	0.0	2.8
a rara	JUNE	00000	0000	Myctophum aurolaternatum	JUNE	ı	1 1	1	Myctophum nitidulum	JUNE	ı	0.0	0.0	1 1	1 0	000	1 1	0.0	0.0	0.0	0.0	0.0	0.0	000	0.0	0.0
Loweina rara	MAY	00000	00000	ohum au	MAY	1	1 1	1 1	tophum	MAY	9.8	3.0	0.0	000	0.0	3.1	1 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	APR.	00000	00010	Myctol	APR.	1	1 1		Myc	APR.	ı	0.0	2.8	0.0	1 4	0.0	1 1	0.0	0.0	0.0	2.8	9.0	00.0	0.0	0.0	0.0
	MAR.	2.6	0.0		MAR.	1	1	1 1		MAR.		1	ı	0.0	1 (0.0	1 1	ı	1 0	0.0	ı	1	0.0	0.0	٠ ١	0.0
	FEB.	00000	0.000		FEB.		1	1 1		FEB.		1	0.0	0.0	1 9	000	1 1	0.0	2.6	0.0	0.0	19	0.0	0.0) 	t I
	JAN.	2.7	000000		JAN.	8.9	25.5	2.6		JAN.		ı	1	1 1	1 1	2.7	1	0.0	0.0)))	2.8	10	0.0	0.0	. 1	0.0
	Z	80.0 90.0 90.0 0.0 0.0	70.0 90.0 70.0 40.0		Z	10.0	25.0	80.0		N	145.0	75.0	90.0	90.06	120.0	80°0 90°0	100.0	70.0	90.0	55.0	70.0	75.0	45.0	55.0	75.0	80°0 90°0
	STATION	90.0 97.0 100.0	113.0 117.0 120.0 127.0		STATION	157.0	157.0	157.0		STATION																103.0 103.0

	NOV. DEC.	1 1	1	1	1	1	1	1	1	1	ı	1	ı		1 1	1	1	1	1	1	1	1	1	l i		1	1	1	1	1 1	1	1	1	1		1	1 1 1	1 1 1 1			11111			1 1 1 1 1 1 1 1 1
	OCT. N	1 0	0 1	11.2	1	3.0	ı	11.1	0.0	2.9	0.0	0.0	0.0			2	0.0	0.0	0.0	9.1	ı	0.0	0.0	0.0				0.0	0.0	0.0	2.7		5.5	i	0.0		0.0	0001	00011	00 0	00 0	00 00	00 00	00 000
	SEP.	i 1	ı	1	ı	ı	1	ı	0.0	ı	ı	ı	ı	ı	1 1	ı	ı	ı	ı	i	i	0.0	ı	1	1 1	ı	ı	0.0	ı	1 1	ı	ı	ı	1	ı		1 !	1 1 1	1111		1111			
_	AUG.	3.2		3.1	3.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	7.0		6.9	0.0	3.3	0.0	ı	e .	0.0	0.0		2.8	0.0	0.0	0.0	0.0		2.6	0.0	ı	1	0.0		0.0	0.00	00000	000000	00.00	20.0	000000000000000000000000000000000000000
(cont.)	JULY	5.2	0.0		0.0	2.8	2.7	5.6	2.9	0.0	2.5	0.0	0.0	4.0	73.7	200	0.0	3.0	3.0	0.0	3.0	0.0	0.0	0.0		2.3	2.9	0.0	0.0	0.0		0.0	2.8	0.0	0.0	0.0		0.0	000	0000	2000	000000	000000	0000000
dulum	JUNE	0.0		0.0	2.8	2.7	0.0	0.0	0.0	0.0	2.7	2.9	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0	ب م	10	0.0	0.0	3.2	2.8	0.0	0.0	0.0	0.0	2.9	0.0	0.0		200	8000	×000	8000	**************************************	* *	×00000
Myctophum nitidulum	MAY	0.0		0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	•	•		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		•	0.0	0.0	3.0	0°0		2.0	0.00	0.00	0.00	0.00	0.0000	00100
yctoph	APR.	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	•	000	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	2.8	0.0		0	0.0	0.0	0.0	1			11	111	111		0.0	00.0
7	MAR.	0.0	٥	0.0))) 	0.0	1	1	0.0	0.0	0.0	5.5	0.0	0.0	•	° 1	0	0.0	0.0	0.0	ı	0.0	0.0	0.0	•)))	0.0	0.0	0.0	0.0	9.0	• 1	0.0	1	0.0	0.0		0 1) 1				0.	000
1	FEB.	0.0	0.1	ı	1	ı	ı	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 1	c 1 c	0	3.1	1	ı	0.0	0.0	0.0	2.0) 1	ı	0.0	0.0	0.0		· • I	0.0	ı	0.0	0.0	=	0 1) 1 1			1110	0.0	0.00
	JAN.	0.0	4.7	0.0))))	2.4	1	0.0	0.0	0.0	0.0	0.0	0.0	1 4	0.0) • C	c 1 C	2.2	2,5	0.0	ı	0.0	2.0	0.0	1 0) 	0.0	0.0	0.0	2.6	c 1 C)))	0.0	ı	0.0	1	ı		1 1	1 1 1	1 1 1	1110	1110	11100
	Z	55.0	0.09	20.02	75.0	80.0	85.0	90.0	35.0	45.0	50.0	55.0	0.09	65.0	0.07	000	000	20.0	70.0	80.0	85.0	40.0	50.0	55.0	20.0	75.0	80.0	39.0	55.0	60.0	20.0	75.0	80.0	85.0	0.06	50.0	0.00	0 2 2	65.0	65.0	65.0 65.0 70.0	70.0	65.0 70.0 45.0	4 4 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	STATION	107.0	107.0	107.0	107.0	107.0	107.0	107.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	1130	113.0	113.0	113.0	113.0	117.0	117.0	117.0	117.0	117.0	117.0	. ထ	120.0	120.0	120.0	120.0	120.0	120.0	120.0	123.0	123.0	1220	123.0	123.0	123.0 127.0 130.0	123.0	123.0 127.0 130.0	123.0 130.0 133.0

DEC.			1	1	ı	1	I 1	ı	ı	ı	ı	ı	ŀ	ı	1	1	ı	ı	ı	1	1	ı	1	ı	1	ł	ı	ı	1	ı	I	I	1 1	ı	1	0.0	0.0	2.4	0.0	ı	ı	ı	1 <		
NOV.	ı				ı	1 1	1	ı	ı	ı	1	ı	ı	ı	ı	1	1	1	1	1	1	1	1	ı	ı	1	1	ı	ı	ı	ı	ı	1 1	1	ı	2.3	2.3	0.0	0.0	ı	i	1	1 0	•	•
OCT.	7 5		, 10	, 4	ο α	, , ,	70.0	, d	0.0	ı	4.9	2.5	14.7	17.0	8,3	3,3	4.3	5.6	2.9	1	0.0	0.0	0.0	0.0	ı	0.0	1	0.0	1 4	2.9	0.0	1 6	C • 7	0)))	0.0	0.0	2.7	ı	6.1	1 4	ۍ پ		0,0
SEP.	ı	!	1	ı	- 1	۱ ۱		ı	ı	ı	ı	ı	1	ł	1	ı	ı	ı	ı	1	1	1	ı	ı	ı	1	1	ı	1	ı	ı	ı	1 1	- 1	ı	1	ı	1	1	ı	i	ı	ı	ı	1 1
AUG.		1	,			1	ı	1	ı	ı	ı	ı	ı	ı	ı	ı	1	ı	1	1	ı	1	1	ı	ı	ı	1	ı	ı	ı	1	ı	1 1		0 0))) 	0.0	0.0	1	ı	1	1	1	1 (200
JULY		1	0	1		c 1 c	•	0.0	0.0	0.0	6.6	6.7	3,3	0.0	0.0	3.1	0.0	0.0	0.0	3.4	3.9	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0	3.1	0.0	0.0	19.4		000		0.0	0.0	0.0	0.0	0.0	0.0	3.5	1 9	0.0
JUNE				1	. 1	l 1	ı	ı	ı	ı	ı	ı	ı	1	ı	1	ı	1	ı	1	ı	ı	ı	ı	ı	ł	ı	ı	ı	ı	ı	ı	1 1		0		0.0	0.0	0.0	1	0.0	2.4	0.0	1 0	0.0
APR. MAY JUNE JULY				ı	۱ ا	1 0		0.0	10.7	5.9	2.9	0.0	0.0	6.2	0.0	6.7	0	0.0	0	,	ı	0.0	0.0	5,3	1	i	0.0	8.9	3°2	0.0	0.0	۳ (۳ (15.0	100	,	• 1	ı	2.8	6.7	3.0	3.2	0.0	0.0	1 6	2.2
APR.					l	1 0	0.0	0.0	0.0	1	3°3	0.0	ı	1	2.8	0))))	ı	1	0.0	2.7	3,5	0.0	0.9	2.3	ı	0.0	ı	0.0	2.0	2.9	0.0	c 1 c	٥٠	: 1	0.0	0.0	0.0	ı	3.1	1 (3.0	1 () n
MAR.		I	1		1 1	ı	ì	ı	1	1	1	ı	ı	ı	ı	ı	ı	ı	ı	ı	1	1	ı	ı	ı	ı	1	ı	ı	ı	ı	ı	1 (1	1 1	1	ı	ı	1	ı	ı	ı	ı	1	ı
FEB.		ı	ı	ı	ı	ł	ı	ı	ı	ı	ı	ı	ı	ı	1	ı	ı	ı	ı	1	ı	1	ı	ı	ŀ	ı	ı	1	ı	ı	0.0	1 0	3.2	1	c 1 c			0.0	4.9	ı	1	ı	1 0	٠,٠	7.9
JAN.		ı	1	ı	ı	1 0	7.7	0.0	0.0	1	0.0	0.0	0.0		0.0	0	, c		• 1	ı	0))))	3.0	0.0	ı	0.0	1	0.0	ı	0.0	0.0	1 (0.0	1	د ا د	• 1	0.0	0.0	0.0	ı	1	ı	ı	1 4	0.0
N.		0.08	90.06	90.0	52.0	60.0	0.09	70.0	80.0	85.0	0.06	0.09	70.0	80.0	0.00		0.0	20.0	0.0	20.00	0.00	52.0	55.0	0.09	65.0	70.0	75.0	80.0	85.0	0.06	0.09	65.0	70.0	0.00	0.0	200	7.00	0.09	70.0	75.0	80.0	85.0	90.0	53.0	25.0
STATION		43.0	43.0	50.0	23.0	53.0	0.09	0.09	0.09	0.09	0.09	63.0	63.0	0.29	0.00	62.0	2.7.9	67.0	22.0	0.79	2 2 2	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	73.0	73.0	73.0	72.0	72.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	80.0	80.0

ğ 20 ğ SEP AUG. (cont.) JOLY 50000 Protomyctophum crockeri JUNE 000011 00 MAR 111111111111100111 E E 11110000011 0000000 111110000402 70.0 880.0 11100.0 11100.0 120.0 STATION

DBC.	1 0	۲.5 د	0.0		0.0	1	ı	ı	ı	1	ì	ı	١	ı	ı	ı	1	1 1	1	ı	1	ı	ı	1	, ,	1	ı	ı	ı	i	1 1	1	ı	ı	ı	ı	ı	1	1 1	1	ı
NOV.	1 4	0.0	0.0) 	ı	ı	ı	ı	1	ı	ı	ı	ı	ı	ı	ı	ı	1 1	ı	1	ı	ı	ı	ı	1 1	1	1	ı	ı	ı	1 1	1	ı	ı	ı	1	ı	ı	1 (1 1	ı
oci.	1 4	ر د د د	5.6)))	ı	ı	0 " 0	8.8	0.0	2.6	0.0	0.0	2.4	1	0.0	1 4	5.8	7	, ,	0	5.6	0.0	11.9	n 0	•		0	2.9	0.0	0.0	ຸດ	0 0	. 80 . 50 . 50	1	0.0	0.0	15.1	2.5	4.0		TOCT
SEP.	2.8	200	2.7	2.6	0.0	5.4	ı	ı	1	i	ŧ	ı	ı	ı	ı	1	1	ł I	- 1	1	1	1	ı	I	1 1	1	ı	ı	ı	1	1 1	ı	ı	ı	1	ı	ı	ı			i
AUG.	2.9	000		3.1	3.2	1	0.0	0.0	0.0	0.0	0.0	3.0	3.2	0.0	2.9	₩. 6	3.2	•	•	0.0	0.0	0.0	6.1	1.0	•	7°C	0.0	1	0.0	3.0	20.0	* =	3.0	0.0	0.0	0.0	0.0	0.0	90	•	0 : 0
JULY	0.0	0.0	0	0	0.0	1	0.0	3.7	0.0	0.0	2.7	1	2.8	0.0	15.5	0.0	0.0	0.0	•	000	3.2	2.8	0.0	0.0	,,		0.0		ı	1 (6.0		0.0	2.7	0.0	0.0	0.0	0.0	0.0	•	=
JUNE	0.0	000		0.0	0.0	1	0.0	3,3	0.0	0.0	0.0	0.0	0.0	2.7	9.7	0.0	0.0	•		0.0	30.00	5.6	0.0	0.0	•		0.0	1	5.8	0.0	0.0	, c	0.0	0.0	0.0	0.0	0.0	200	0.0	000	=
MAY	8.7	000	2.7	3.1	0.0	1	0.0	0.0	2.8	6.2	0.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0	•	9.0	0.0	0.0	0.0	0.0		•	3.0	1	0.0	0.0	0.0	•	0.0	2.8	0.0	0.0	0.0	0.0		0.0	=
APR.	8.3	2.0	0.0	0.0	0.0	1	0.0	0.0	0.0	5.8	0.0	ı	0.0	0.0	0.0	5.4	0.0	2.0	•		0.0	0.0	0.0	0.0		•	0.0		0.0	0.0	0.0		0	0.0	2.7	0.0	0.0	0.0	0.0		4
MAR.	1 1	0.0	0)))	0.0	1	2.6	2.5	0.0	5.5	0.0	0.0	0.0	ı	ı	ı	ı	ı	0	0.0	0.0	0.0	0.0	0.0	0.0	1 1	ı I	1	0.0	0.0	0.0	000	0	1	0.0	0.0	1	0.0	2.0	•	=
FEB.	1	1 1	-	• 1	0.0	1	0.0	0.0	0.0	2.4	0.0	0.0	2.5	ı	0.0	1	0.0	10	•		2.1	2.7	5.0	2.3	0.0	2.0	0.0	1	2.3	5.2	0.0		2.5	1	0.0	ı	1	2.0		0.0	=
JAN.		2.0	c 1 C	° 1	0.0))) 	0.0	0.0	0.0	0.0	0.0	2.8	8.1	1	0.0	1	23.7	1 0	•	2.7	11	0.0	2.3	1 6	0.0	14.1	000	1	0.0	2.8	2,3	, c	0.0	1	2.9	2.7	2.6	5.0	4.0	0.0	_
N(70.0							40.0	45.0	50.0	55.0	0.09	65.0	70.0	75.0	80.0	85.0	0.00	35.0	40.0	45.0	50.0	55.0	20.0	0.00	0.06	50.0	35.0	40.0	45.0	20.00	0.09	65.0	70.0	80.0	0.06	35.0	40.0	0.0	200
STATION	93.0	93.0	0.00	0.0	93.0	03.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	0.00	100	100.0	100.0	100.0	100.0	100.0	100	100.0	101.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	107.0	107.0		0.01

ESC.

NOV 014180404464044000001418100000410104000410000 S Protomyctophum crockeri (cont.) 0000000000 JUNE 00060098 00000000 EB 1000000001110000000 806/8 W448 N00 P8 W648 N00 P8 STATION

TABLE 4. (cont.)

	V. DEC.	111111111111111	NOV. DEC.	0.0000000000000000000000000000000000000
	OCT. NOV	0.000% 0000000	OCT. NO	
	SEP.	0.	SEP. (
t.)	AUG.	80-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	AUG.	0 0 0 0
(cont.)	JULY	5.1 2.8 2.8 2.8 2.9 0.0 0.0 0.0 0.0 2.8 2.8 2.7	JULY	
Protomyctophum crockeri	JUNE	5.5 0.0 0.0 2.9 2.9 5.3 0.0 0.0 0.0 2.7 0.0 0.0 3.0 0.0 0.0 0.0 0.0 0.0	JUNE	11.77 11.77 10.00 10.00 10.00
ophum c	MAY	- 0.0 - 2.6 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	MAY	123.1 123.1 123.1 123.1 145.3 145.3 145.3
otomyct	APR.		APR.	15.1 15.1 15.1 15.1 15.1 15.1 15.1 15.1
Pr	MAR.	0. 000 00000	MAR.	11111111111111111111111
	FEB.	0 1 1 0 0 0 1 1 0 0 0 0 0 1 1	FEB.	000 0 0 0 0
	JAN.	11077010000000	JAN.	
	STATION	0.0550 0.0550 0.0550 0.0550 0.0550 0.0550 0.0550 0.0550 0.0550	STATION	00000000000000000000000000000000000000
	STAT	123.0 123.0 123.0 127.0 127.0 127.0 130.0 130.0 137.0 137.0	STAT	63.00 63.00 647.00 770.00 777.00 777.00 777.00 777.00 777.00 777.00 777.00 777.00 880.00 880.00 880.00

Symbolophorus californiensis (cont.)

DEC. NO. Ş 엺 JUNE ΨĀ APR. MAR. EB 75.0 888.0 888.0 90.0 STATION

TABLE 4. (cont.)

97.0 170.0	STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	ocT.	NOV.	DEC.
10.0 0.0	0	0.0	10.5		0.0	0.0	7.6	3.1	0.0	ı	0.0	1	ı
98.0	0.	ı	ı	ı	2.7	0.0	0.0	0.0	0.0	ı	1	ı	•
99.0 2.5 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.	3.0	4.6	ı	2.8	0.0	0.0	2.8	0.0	ı	0.0	1	ı
40.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.	2.5	0.0	1 0	0.0	0.0	0.0	0.0	0.0	1	0.0	ı	ı
## 195.0		0.0	•	0.0	•					1	,	1 1	1
\$\begin{array}{cccccccccccccccccccccccccccccccccccc	•	0-0	0.0	0.0	0.0	30.0	2.8	0.0	0.0	ı	0.0	ı	ŧ
55.0		0.0	0.0	0.0	0.0	3.1	2.7	0.0	3.1	ı	3.0	ı	ı
66.0 0.0 0.0 0.0 0.0 0.0 3.4 6.1 0.0 3.2 - 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0))) 	0.0	0.0	0.0	0.0	3.3	2.5	9.3	ı	3.0	1	ı
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0.0	0.0	0.0	0.0	3.4	6.1	0.0	3.2	ı	0.0	ı	ı
75.0 2.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.	i	ı	ı	0.0	2.7	0.0	1 4	3.2	1	1 4	ı	ı
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0.	2.8	0.0	ı	0.0	0.0	9.0	0.0	0.0	1	0.0	ı	ı
85.0	0.0	1 6	1	1 1	11.4		0.0		•	1 1	1 0		1 1
90.0 2.7 0.0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0	0.0	13.2	۱ ۱	•	•	, c	9.6	0.5	ll	0 1	1	1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	90	2.7	0-0	,		0.0	0.0	0.0	0.0	ı	0.0	1	1
\$\begin{array}{cccccccccccccccccccccccccccccccccccc		0.0	0.0	0.0	0.0	0.0	2.9)	0.0	ı	0.0	1	1
60.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		2.8	0.0	0.0	0.0	0.0	0.0	3.0	0.0	ı	0.0	1	1
70.0 2.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	ı	5.7	1	1
85.0		9,0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	1 1	0.0	1	1 1
90.0 5.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.		7.7	1 1	0.1			000	0.0	900	1 1)))	1	ı
35.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		5,3	1	ı	0.0	0.0	0.0	0.0	0.0	1	0.0	ı	ı
40.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 5.8 0.0 0.0 5.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	ı	0.0	ı	1
55.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		0.0	0.0	0.0	0.0	0.0	0.0	200		L	0.0	1 1	
50.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		000			200		000	0.0		1 1	0.1	1 1	ı ı
35.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	ι	0.0	ı	1
46.0 0.0 0.0 0.0 0.0 2.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	i	ı
70.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	1 1	L
35.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		000	10	•	•					1 1	0.7	1 1	1
45.0 0.0 5.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	0.0	ı	ı
55.0 0.0 0.0 0.0 0.0 0.0 0.0 3.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	ı	1
39.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	1 0	0.0	ı	ı
Tarletonbeania crenularis Tarletonbeania crenularis JAN. FEB. MAR. APR. MAY JUNE JULY AUG. SEP. OCT.		000	000	0.0	00.	2.7	3°5 0°0	000	00.	0.0	0.0		1 1
50.0					Tarlet	onbeani	a crenu	laris					
50.0	ATION	JAN.	FEB.	MAR.	APR.	MAX	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
47.0	1												
80.0 5.8 2.9		1	1 1	i 1	1	1 !	1	1	1 1	1 1	7.7	1 1	1
80,0		1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	9.0	. 1	
		1 1	1 1	۱ ا	1 (ı I	α α	1	1	100	1	1
								;			•		

Tarletonbeania crenularis (cont.)

				101	ומדדברחוותבמוזדם		CTCHARGE	י ורכוורי	(
STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	ocr.	NOV.	DEC.
0 05	0 00			1			1	1	ı	1	2.0	ı	ı
200	20.00	,	ı	ı	1	1	ı	1	1	ı	8.8	ı	ı
53.0	55.0	1	ı	ı	ı	ı	ı	ı	ı	ı	4.0	1	ı
53.0	0.09	1	ı	ı	1	ı	ı	ı	ı	t	5.8	ı	ı
57.0	55.0	1	ı	ı	ı	ı	ı	ı	ı	1	2.2	ı	ı
0	0.06	1	ı	1	ı	ı	1	3.1	ı	ı	ı	1	ı
0.09	52.0	0.0	ı	ı	ł	0.0	1	2.8	ı	1	0.0	1	ı
0	55.0	0.0	ı	1	ı	6.4	ı	0.0	1	ı	0.0	ı	ı
	0.09	0.0	ı	ı	0.0	28.3	1	0.0	ı	ı	5.6	ı	ı
	65.0)))	ı	ı	0.0	36.5	ı	0.9	ı	ı	1	ı	ı
	70.0	0.0	1	1	5.5	18.2	ı	5.7	ı	1	15.3	ı	ı
	75.0) 1	ı	1		3.8	ı	0.0	1	ı	1	ı	ı
	80.0	0.0	1	1	0.0	0.0	ı	2.8	ı	ı	0.0	ı	ı
	85.0) 1	ı	ı	1	0.0	ı	3.0	t	ı	ı	1	ı
	0.06	0.0	ı	ı	3,3	11.6	ı	2.5	ı	ı	2.5	1	ı
	0.0	0	ı	ı	3.0	0.0	1	14.1	ı	ı	0.0	1	ı
	0.09	2.9	ı	I	9.9	5.7	ı	13.4	ı	1	2.5	ı	ı
	65.0	1	ı	1	1	28.7	ı	9.9	ı	ı	ı	1	1
63.0	70.0	0.0	ı	í	1	24.8	ı	9.9	ı	١	8.8	1	ı
63.0	75.0		ı	1	1	12.2	ı	0.0	1	ı	ı	1	ı
63.0	80.0	1	ı	1	ı	6.2	ı	0.0	ı	ı	9.7	ı	ı
63.0	85.0	i	ı	1	ı	25.0	ı	0.0	1	ı	1	1	ı
63.0	0.06	0.0	ı	1	2.8	5.9	1	7.5	ı	i	13.9	ı	ı
67.0	55.0	0.0	ı	ı	0.0	3.4	1	3.1	ı	ı	3°3	ı	ŀ
67.0	60.09	0.0	ı	. 1	0.0	0.0	1	13.4	ı	ı	0.0	ı	ı
67.0	65.0	1	ı	ı	1	0.0	1	11.4	ı	ı	1	ı	ı
67.0	70.07	0.0	1	ı	1	2.7	1	14.0	ı	ı	e . 3	ı	ı
67.0	80.0	1	ı	1	ı	6.1	ı	6.7	ı	ı	0.0	ı	ı
0.79	85.0	ì	ı	1	ı	ı	ı	8.9	1	1	1 4	1	1
_	0.06	0.0	ı	ı	0.0	1	ı	۳ 0 °	1	ı	0.0	ı	ı
_	52.0	1	ı	ı	5°2	0.0	ı	ب د . د د . د	ı	ı	0.0	ı	t
	55.0	0.0	ı	ı		2.0	ı	1.8.1	1	ı		1 1	1 1
_	0.09	0.0	ı	I	200	0.0	1	10	۱ ۱		• 1	ı	ı
	0.00	1 4	ı	1	۰۰	1 1	1 1			1	0	1	1
٠	70.0	0.0	ı	ı	6.3	,				ı	٥	ı	ı
_	0.00	1 6	ı	ł			l I	90	. 1		0	ı	1
_	0.08	6.7	ı	ł	7.6	7.0	1	• •	1 1	۱ ۱			ı
_	85.0	1 4	ı	ı	1 9	17.4	ı	ָ טינ	ı	ı			1
_	90.0	0.0	1 4	ı	0.0	0.0	1	15.7	ı	ı		1 1	۱ ۱
_	55.0	0.0	0.0	1	0.0	0.0	ı	٠ • •	1	1	•	1 1	
73.0	60.0	0.0	0.0	1	0.0	٠. د د	ı	0.0	1	1 1	0 1		: 1
73.0	000		1	ı	۷.۶		1 1	2.5	1 1			1	1
73.0	0.01	1 0	1 0	ı	יו	0.0		***	c 1 c		-	0	0
0.77	0.00	,,	•	1 1	10	α	7.4			1		0	0.0
77.0	65.0		• 1	: 1	0.0	0.0	, m	0.0	1	ı)))) 	
)							

TABLE 4. (cont.)

떮 200 Š S 138.2 233.2 18.0 5.0 SEP 0.00000000 (cont.) JULY Tarletonbeania crenularis spp JUNE 000 00000 000000 000 FUNE Synodus MAY MAY 000 000000 000000 APR. MAR 000 000000 000000 000 EB. 00011000000110000000111000 0 0 0000000 700.0 885.0 885.0 990.0 775.0 775.0 990.0 555.0 STATION STATION 777.0 777.0 777.0 777.0 880.0 880.0 880.0 883.0 883.0 883.0 11133.00 11133.00 11133.00 11133.00 11135.00 11137.00 11130.00 11130.00 11131.33 11131.33

TABLE 4. (cont.)

TABLE 4. (cont.)

				Y	Merluccius productus	ius prod	ductus	(cont.)	_				
STATION	Z	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JOLY	AUG.	SEP.	OCT.	NOV.	DEC.
0	0 00				217		,	0	1		0.0		,
0.09	0.00		1	1	136.1	0.0	ı	0.0	1	ı	0.0	1	ı
200	52.0	0	1	ı	2.8	1	1	0.0	ı	ì	0.0	1	ı
63.0	55.0	0.0	ı	1	32.6	0.0	ı	0.0	ı	1	0.0	ı	1
63.0	0.09	0.0	1	ı	26.6	0.0	ı	0.0	ı	ı	0.0	ı	ı
63.0	75.0	1	1	1	1	12.2	ı	0.0	ı	1	ı	1	ı
63.0	80.0	ı	ı	ı	ı	43.7	1	0.0	ı	ı	0.0	ı	ł
63.0	85.0	1	1	ı	ı	18.8	ı	0.0	ı	i	ı	ı	ı
63.0	0.06	0.0	ì	ı	34.1	14.7	1	0.0	ı	ı	0.0	ı	1
67.0	50.0	0.0	ı	ı	2.4	3.0	t	0.0	ı	ı	0.0	ı	ı
67.0	55.0	0.0	ı	ı	7.6	3.4	1	0.0	ı	1	0.0	ı	ı
67.0	0.09	0.0	1	1	13.7	6.9	ı	0.0	ı	1	0.0	ı	!
67.0	70.0	0.0	1	ı	1	5.4	ı	0.0	ı	1	0.0	ı	ı
67.0	75.0	1	ı	ı	1	0.9	1	0.0	ı	1	ı	ı	ı
67.0	80.0	1	1	ı	1	3.0	1	0.0	1	1	0.0	ı	ı
70.0	52.0	1	1	1	16.4	0.0	ı	0.0	ı	1	0.0	ı	1
70.0	55.0	0.0	ı	1	20.9	11.8	ı	0.0	ı	1	0.0	ı	ı
70.0	60.0	0.0	1	1	0.6	7.9	ı	0.0	ı	ı	0.0	ı	1
70.0	65.0)	1	1	36.2	1	ı	0.0	ı	ı	1	ı	1
70.0	70.0	0.0	1	1	43.3	1	1	0.0	ı	1	0.0	ı	i
70.0	75.0))) 	ı	ı	1	13.7	1	0.0	ı	1	1	1	1
70.0	80.0	0.0	1	1	89.1	8.9	1	0.0	ı	1	0.0	ı	1
70.0	85.0)) 	ı	ı	1		1	0.0	ı	1	1	1	1
70.0	0.06	0.0	1	ı	65.9	5.6	ı	0.0	ı	ı	0.0	ı	i
73.0	51.0	0.0	537.2	ı	0.0	0.0	ı	0.0	ı	1	0.0	ı	ı
73.0	53.0	ı	624.9	1	ı	ı	1	ı	ı	ı	ı	ı	ı
73.0	55.0	0.0	544.6	1	14.1	5.6	ı	0.0	ı	ı	0.0	ı	ı
73.0	57.0	1	68.2	1	ı	1	ı	1	ı	1	ı	ı	ı
73.0	0.09	0.9	15.3	ı	32.0	9.5	ı	0.0	i	ı	0.0	ı	ı
73.0	65.0	ı	ı	ı	71.8		ı	0.0	ŀ	ı	1 -	1	ı
	70.0	0.0	15.8	ł	117.3		ı	0.0	ı	ı	0.0	ı	ı
	80.0	ı	1	ı	$^{29.1}_{-1}$	0.0	ı	0.0	ı	1	0.0	ı	ı
73.0	0.06		1	ı	ۍ و و	•	1 0	0.0	1 6	ı	0.0	1	ı
77.0	50.0	0.0	79.4	1	5.9	0.0	0.0	0.0	0.0	ı	0.0	1 9	1 0
77.0	53.0	1 1	217.4	ı	1 :	ı	1 4	1 0	1 (1	1 4	0.0	•
77.0	55.0	2.6	569.6	ı	24.5	ı	0.0	0.0	0.0	ı	0.0	0.0	0.0
77.0	57.0	1 4	113.6	ı	1 1		1 0	1 9	1 0	1	1 6	u 1 °	1 6
77.0	0.09	9.3	10.1	í	3/./	ກໍດ	0.0	•	0.0	1 1	0.0	7.0	0.1
77.0	0.00	1 0	1 0	1 1	2.0	,	•	•	1	1	-	0	0
77.0	75.0	٥	١٥	- 1		o u) 		ı	1) 	1))))
77.0	80.0	ı	1	1	1.64	0	0.0	0	ı	1	0.0	ı	ı
77.0	85.0	1	1	1	1	2.8	0.0	0.0	1	1	1	ı	ı
77.0	0.06	1	1	1	0.0	2.9	0.0	0.0	1	1	0.0	ı	ı
80.0	52.0	36.3	ı	ı	23.2	3.0	2.7	0.0	0.0	1	0.0	1	1
80.0	53.0	ı	471.2	ı	ı	ı	ı	1	ı	ı	ı	0.0	0.0

(cont.)

Merluccius productus

8 SEP JULY 100.6 100.6 100.6 100.6 100.6 100.6 100.0 100.0 11 1872.2 1633.3 130.7 555.0 11 995.0 12 95.0 13 95.0 14 95.0 15 95.0 16 95.0 17 95.0 17 95.0 18 9 STATION

	DEC.	000 00
	NOV.	wwo.oo.11111111111111111111111111111111
	OCT.	
	SEP.	000000
•	AUG.	
(cont.	JULY	000000000000000000000000000000000000000
ductus	JUNE	
ius pro	MAY	
Merluccius productus	APR.	23188.5 41.7.7 41.7.7 5.56 6.00 6.00 6.00 6.00 6.00 6.00 6.00
7	MAR.	52.6 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
	FEB.	27.6 67.6 67.6 67.6 67.6 67.6 67.6 67.6
	JAN.	WAO 1000 WO 0000 0000 0000 0000 0000 10000 0000
	NC	0.00 0.00
	STATION	933.0 933.0 933.0 933.0 933.0 933.0 933.0 933.0 933.0 933.0 933.0 933.0 933.0 933.0 933.0 933.0 933.0 933.0 933.0

Me		- 1	ler lucc.		ius pro	luctus	(cont.					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JONE	JOLY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0 60.0	0.0	0.0	0.0	1	0.0	0.0	2.6	0.0	1	0.0	ı	1
	0.0	0.0	42.6	ı	0.0	0.0	0.0	0.0	0.0	0.0	ı	1
	15.8	0.0	0.6	ı	0.0	0.0	0.0	0.0	0.0	0.0	i	ı
	0.0	41.2	5.9	ı	2.8	0.0	0.0	0.0	0.0	0.0	ı	ı
	5.3	5.4	0.0	ı	0.0	0.0	0.0	0.0	ł	0.0	ı	ı
	0.0	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ı	i
	13.3	20.3	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ı	ı
	0.0	17.9	11.4	0.0	2.6	0.0	0.0	0.0	0.0	0.0	ı	ı
	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	ı	ı
	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	ı	0.0	ı	ı
	2.4	0.0	110.3	9.1	0.0	0.0	0.0	0.0	0.0	0.0	ı	ı
	0.0	0.0	240.8	2.8	0.0	0.0	0.0	0.0	ı	0.0	ı	ı
	2.0	0.0	35.5	4.0	0.0	0.0	0.0	0.0	ı	0.0	ı	ı
	0.0	0.0	5.9	0.0	0.0	0.0	0.0	0.0	ı	0.0	ı	ı
	0.0	0.0	3,1	0.0	ı	0.0	0.0	0.0	ı	0.0	1	ı
	11.7	0.0	73.8	0.0	ı	0.0	0.0	0.0	0.0	0.0	ı	ı
	16.8	11.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ı	ı
	61.3	10.7	23.6	8.2	0.0	0.0	0.0	ı	0.0	0.0	ı	ı
	0.0	0.0	11.7	0.0	0.0	0.0	0.0	0.0	ı	0.0	1	1
137.0 40.0	0.0	0.0	0.0	18.6	0.0	0.0	0.0	0.0	ı	0.0	1	ı
	0.0	8.8	0.0	5.6	0.0	0.0	0.0	0.0	ı	0.0	ı	ŧ
	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	1	0.0	1	ı
	4.7	ı	ı	5.6	ı	ı	1	0.0	ı	ı	ı	i
	8.9	ı	1	0.0	1	1	ı	0.0	ı	ı	ı	ı
	3.0	ı	ı	0.0	ı	ı	ı	0.0	ı	ı	ı	ı
	18.4	ı		0.0	ı	1	ı	0.0	1	ı	ı	ı
	2.0	1	ı	0.0	ı	ı	1	0.0	ı	ı	ı	ı
					Dhueian Inc con	ads sul						
				,	Transfer .	Ade car	•					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0 60.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ı	0.0	ı	1
	2.3	ı	ı	í	ı	ı	ı	ı	ı	ı	ı	1
					Macro	Macrouridae						
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
57.0 55.0 83.0 90.0 137.0 45.0	0.0	2.6	3.0	0.0	100	0.0	0.0	0.0	111	0.00	111	111

TABLE 4. (cont.)

	DEC.	= 0000000 0 0000000	DEC.	0 000
	NOV.	a 00000 0	NOV.	0.000
	OCT.	00000000000000000000000000000000000000	OCT.	00000
	SEP.	22000000000000000000000000000000000000	SEP.	1 1 1 1 1
	AUG.	1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AUG.	0000
	JULY	na ta	JOLY	12.3
Ophidiiformes	JUNE	22.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	JUNE	0.0 2.7 0.0 3.2
Ophidi	MAY	0.00 0.00	MAY	0.00
	APR.	12.77 12.77 13.56 13.56 10.00	APR.	00000
	MAR.	0 00 00000000 0000 00000	MAR.	0.0
	FEB.		FEB.	0.00
	JAN.	0 00000000 00000000 0000000000000000000	JAN.	00000
	NC	2000 2000	Z	70.0 52.0 40.0 51.0 55.0
	STATION	77.0 880	STATION	77.0 80.0 83.0 83.0

TABLE 4. (cont.)

				Br	iydowso	Brosmophycis marginata	rginata	(cont.	•				
STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	40.0	0.0	000	0.0	0.00	0.00	2.4	000	000	1 1 1	000	000	000
107.0	32.0	0.0	000	0.0	000	000	200	000	, m 0 0 m 0	0.0	000	1 1	1 1
					O	hilara	Chilara taylori						
STATION	1	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JOLY	AUG.	SEP.	OCT.	NOV.	DEC.
73.0	0.09	0.0	0.0		0.0	0.0		0.0	1	1	2.5	1 6	1 0
77.0	53.0	1 0	0.0	1 1	10	1 1	0	0,0	0.0	1 1	2.0	0.0	0.0
77.0	70.0	0.0	0.0	-1	0.0	0.0	0.0	0.0	9 1	ı	0.0	0.0	3.0
0.08	52.0	0.0	10	1 1	0.0	0.0	0.0	0.0	3.5	1 1	9.0	0.0	0.0
87.0	65.0	•)))	ı	0.0	0.0	0.0	3.2	0.0	ı	1	1	1 4
90.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	1 0	0.0	2.7	0.0	0.0	0.0
97.0	30.0	0.0	0.0	0.0	0.0	0	0.0	0.0	2.9	1	0.0	1	ı
107.0	32.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	2.8	ı	ı
107.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	1 1	0.0	1 1	1 1
113.0	40.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	ı	ı
115.0	40.0	1 1	0.0	0.0	ı ı	0.0	0.0	0.0	0.0	2.3	2.7	1 1	1 1
123.0	65.0	ı))))	ı	0.0	0.0	8.1	0.0	ı	ı	ı	ı
					ODI	hidion	Ophidion scrippsae	ae			1	 	
STATION	P	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	55.0	0.0	0.0		0.0	0.0	3.0	0.0	0.0	i	0.0	0.0	0.0
82.0	47.0	00	0.0	0.0	0.0	0.0	0.0	0.0	6.4	1	30.0	0.0	0.0
87.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0
100.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0))	0.0	1	ı
107.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	1	i
117.0	39.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	1 1	1-1
118.5	25.0	1 0	1 6	1 9	ı	1	1 6	1 0	10	2.8	1 "	1 1	1 1
120.0	25.0	000	000	000	,00	111	000	000	000	10.2	22.2	1 1	1 1
120.0	20.00	,	•	•	•		•	•)	1			

TABLE 4. (cont.)

ļ		!																				١,:	ļ 0	0		,	0	0															
	DEC	1	1	I	ı	1	ı	1	ı	1	1	1	1	1	1	1	1	1	1	1		DEC	0	0	1	1 4	o (°	1	I	1	1	1 1	. !	1	ı	ŀ	1	1	ı	ı	I	J
	NOV.	-	ı	ı	1	ı	ı	1	,	ı	ı	ı	ı	ı	1	i	1	ı	ı	I		NOV.	0.0	1	ı	ı	ı	ı	ı	ı	ı	ı	1 1	1	ı	1	ı	ı	ı	ı	t	ı	ı
	OCT.	24.2	0.0	2.9	ı	ı	1	1.8	0.0	0.0	0.0	0.0	0.0	34.6	0.0	8.0	0.0	1	ı	ı		OCT.	0.0	0.0	1	ı	i	ı	ı	ı	1 9	0.0	* 0	900	, c)))	0.0	3.0	6.1	1 0	2.0	0.0
	SEP.	17.5	8.2	0.0	1 1	26.5	5.2	0.0	0.0	1	0.0	8.6	3.1	0.0	0.0	6.5	0.0	ı	ı	ı		SEP.	0.0	5.2	2.8	0.0	0.0	2.8	2.7	5.2	1	ı	1	1	ı	ı	1	ı	ı	ı	ı	1 9	0.0
	AUG.	0.0	13.9	0.0	3.3	ı	ı	0.0	0.0	17.2	4.5	28.7	0.0	1	1.1	0.0	ı	0.0	1.3	0.0		AUG.	3.2	0.0	0.0	0.0	6.4	ı	ı	1	10.2	3.5	0.0		•		2.6	3.2	3.3	6.1	9.5	15.1	1 . 7
(cont.)	JULY	0.0	0.0	0.0	0.0	ı	ı	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ı	ı	ı		JULY	0.0	0.0	0.0	0.0	0.0	ŧ	ı	1	0.0	0.0	0.0				0	0.0	0.0	0.0	0.0	0.0	0.0
	JUNE	0.0	0.0	2.7	0.0	ı	1	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ı	ı	ı	Ceratioidei	JUNE	0.0	1	0.0	3.1	0.0	ı	ł	1	0.0	0.0	•	•	•	•	0.0	0.0	0.0	0.0	0.0	0.0	٥.٥
Ophidion scrippsae	MAY		0.0	0.0	0.0	ı	ı	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ι	ł	ı	Cerat	MAX	0.0	0.0	0.0	0.0	0.0	ı	I	1	0.0	0.0	0.0	•		•	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ophidio	APR.	0.0	0.0	0.0	0.0	1	ı	ı	ı	1	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	t		APR.	0.0	0.0	0.0	0.0	0.0	ı	ı	ı	0.0	0.0	0.0		•	•		0.0	0.0	0.0	0.0	0.0	٥.
	MAR.	0.0	0.0	0.0	0.0	1	1	0.0	0.0	- 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ı	ı	ı		MAR.	0.0	0.0	1	1	0.0	ı	ı	ı	t	ı	1 6				• 1	0.0	1	0.0	ı	1 0	٥.
	FEB.	0.0	0.0	0.0	0.0	ı	ı	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	18.7	ı	1	ı		FEB.	0.0	0.0	1	ı	0.0	ı	ł	ı	1 4	0.0	0.0	•		•		ı	ı	ı	ı	1 0	0.0
	JAN.	0.0	0.0	0.0	ı	ı	ı	0.0	0.0	0.0	2.3	2.5	0.0	0.0	0.0	0.0	0.0	2.3	0.0	2.3		JAN.	1	ł	ı	ı	0.0	ı	١	ı	1 4	0.0	0.0	•) 	0.0	0.0	0.0	1 9	0.0	0.0
		35.0	40.0	45.0	65.0	34.0	30.0	37.0	42.0	70.0	34.0	30.0	35.0	25.0	30.0	23.0	30.0	30.0	30.0	19.0			80.0	0.06	65.0	85.0	0.06	0.001	110.0	120.0	75.0	70.0	0.06	40.0	0.0	20.0	75.0	80.0	90.0	80.0	85.0	90.0	35.0
	STATION	120.0	120.0	120.0	120.0	121.2	121.3	123.0	123.0	123.0	127.0	130.0	130.0	133.0	133.0	137.0	137.0	140.0	143.0	150.0		STATION																		107.0			110.0

TABLE 4. (cont.)

				Ce	Ceratioidei (cont.)	ei (con	t.)					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0 65.0 110.0 70.0 110.0 80.0	 	0000	0000	0000	0000	0000	0000	3.2	1 1 1 1	0.085	1-1-1-1	1111
113.0 55.0 113.0 70.0 113.0 80.0 117.0 45.0	00000	00 100	00000	00000	00000	00000	00000	w 0 0 0 0 0 0 0 0 1 1	1111	00000	1111	1111
		001100	00 00	00000	00000	00000	00000	2.9	11111	22.7	1 1 1 1 1	
123.0 45.0 123.0 60.0 123.0 70.0 127.0 70.0		00 0 0	00000	111100	00000	00000	000000	0.004.	m m	008250	11111	
		00011	00011	000011	0.0 0.0 0.0 - - Loph	0.0 0.0 0.0 0.0 0.0 0.0 Lophiidae	000	0.00	0.01111	0.000	1 1 1 1 1	1111
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	ocī.	NOV.	DBC.
130.0 35.0	0.0	0.0	0.0	0.0	0.0 Exoco	0.0 0.0 Exocoetidae	0.0	0.0	0.0	3.0	ı	1
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0 90.0 107.0 40.0 117.0 40.0 123.0 45.0 130.0 65.0	000000000000000000000000000000000000000	000011	000011	000	000011	000001	0.0 2.0 3.0 5.7	3.0	00011	000011	11111	11111

TABLE 4. (cont.)

	DBC.	1111	000	000	0.0		1	111	1	DEC.	0.0		DEC.	1		ı	ı	1 1	0.0	۰ ۱	ı		DEC.	١
	NOV.	1111	000	00 1	0.0	111	1	1 1 1		NOV.	0.0		NOV.	1	1	1	ı	1 1	0.0	0 1	1		NOV.	1
	OCT.	0.0	000	000	2.8	000	000	000		ocr.	0.0		ocr.	2.9	1		0.0	0.1	0.0	0.0	ı		OCT.	0.0
	SEP.	111	11	000	000	0.0	110	0.0		SEP.	ł		SEP.	ı	ı	1 1	ı	1 1	0.0	0.0	ı		SEP.	1
	AUG.	111	3.2	000	000	000	000	000		AUG.	0.0		AUG.	1	1	1 1	1 6	o. 0 I	0.0	0.0	1.9		AUG.	1
	JULY	0000	000	000	0.0	000	000	0.0		JULY	0.0	4.	JULY	1	0,0	 	0.0	0.0	0.0	0.0 7.8	1		JULY	3.0
Cololabis saira	JUNE	1111	000	2.7	0.0	 4.6.6	0.0	0.80	Atherinidae	JUNE	0.0	Trachipteridae	JUNE	1	1	1 1	0.0	m c	0.0	000	1	Melamphaes spp	JUNE	
ololabi	MAY	2.9	0.00	000	000	000	000	000	Ather	MAY	0.0	Trachip	MAY		0.0	0.0	3.2	0.0	0.0	2.4	1	<i>felampha</i>	MAY	0.0
บั	APR.	0.0	2.7	800	000	9.0	0.0	111		APR.	0.0		APR.		1	1 1	0.0	0.0	2.9	0.0	0.0	~	APR.	0.0
	MAR.	1 1 1	1 1 1	000	000	000	0.0	000		MAR.	0.0		MAR.		ı	1 1	ı	1	0.0	0.0	1		MAR.	1
	FEB.	1 1 1 1	000	0.0	0.0	000	0.0	0000		FEB.	0.0		FEB.		١	1 1	1	0.0	0.0	0.0	1		FEB.	
	JAN.	0.0	800.	1 1 1	0.0	000	0.0 7.80	000		JAN.	3.9		JAN.		ı	, ,	,	0.0	1 1	0.0	0.0		JAN.	0.0
	Z	75.0 90.0 75.0	70.0 55.0 55.0	70.0	80°0 80°0	45.0	50.0 70.0	45.0 50.0 60.0		z	40.0		z	55.0	85.0	75.0	80.0	90.0	70.0	55.0	0.09		Z	0.09
	STATION	60.0	73.0 77.0 83.0	87.0 90.0	0.00	113.0	120.0	127.0 127.0 127.0		STATION	83.0		STATION	50.0	0.09	67.0	77.0	80.0	90.0	93.0	143.0		STATION	0.09

					Melan	nphaes :	Melamphaes spp. (cont.)	ont.)					
STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	65.0			1	0.0	0.0		3.0	ı	ı	,	ı	ı
	70.0	0.0	ı	1	0.0	18.2	ı	0.0	ŀ	ı	0.0	ı	ı
٥	80.0	0.0	1	ı	0.0	5.3	ı	2.8	ı	ı	0.0	ľ	ı
0.09	85.0	1 0	i	1	1 6	0.0	1	0.0	1 1	1 (1 0	1 1	1 1
_	0.0	0.0	1 (1 1	0.1	12.6	1 1	, r		1	2.4	ı	. 1
-	200	1	ı I	1	1	0.0	1	10.1	1	1	1	ı	ı
	0.0	0.0	ı	١	5.7	0.0	ı	0.0	ı	t	0.0	1	1
	55.0	0.0	1	ı	2.5	0.0	ı	0.0	ı	ı	0.0	1	ı
0	90.09	0.0	ı	ı	0.0	0.0	ł	3.3	ı	1	0.0	1	ı
0	70.0	0.0	١	ı	ı	2.7	ı	0.0	ı	ı	0.0	ı	ı
0	75.0	1	ı	1	ı	12.0	ı	و و و	ł	1	1 0	1	ı
0	80.0	1	I	1	1 4	3.0	ı	0.0	ı	ı	0.0	ı	ı
0	0.06	0.0	ı	í	0.6	1 (ı	۳ و و	ı	ı	0.0	ı	ı
0	52.0	ı	ı	ı	2.7	0.0	ı	0.0	ı	ı	0.0	ı	ı
0	55.0	0.0	ı	ł	7.0	0.0	ı	0.0	ı	ı	0.0	ı	ı
0	70.0	0.0	ı	ı	8.9	1	ı	0.0	ł	ı	0.0	ı	ı
0	75.0	1 4	i	ł	1 1	2.7	ı	0.0	ı	ı	1 9	ı	ı
0	0.08	0.0	1	ı	6.7	ى 4 ، 4	ı	æ c	ı	ı	0.0	1	
0	85.0	ı	1	ı	1 0	٠, د ،	ı	0.0	ı	ı	1	1	t 1
_	65.0	ic	1 0	ı	2.5	ب م م	1 1	•	H	1 1	c 1 C	1 1	l
_	70.0	7.8	3.2	ı	3.2	0.0	ı	0.0	1	1 1	٥		
73.0	0.0	i i	1 1	1 1	0	, ,	ı			ı 1	0	ı	í
	0.00		ı	ı			1	, c.	ı	ı)))	ı	ı
	0.00	ı	ŀ	1	8.8	0.0	1	0.0	1	1	0.0	i	ı
	25.0	0.0	0.0	1	0.0	0 1	6.3	0.0	0.0	ı	0.0	0.0	0.0
0	60.09	0.0	0.0	1	0.0	0.0	12.8	0.0	0.0	ı	0.0	0.0	0.0
0	65.0	i	1	ı	0.0	3.0	0.0	0.0	ı	ı	ł	1	1 -
0	70.0	3.0	2.5	ı	0.0	3,3	7.3	0.0	1	ı	0.0	0.0	0.0
0	80.0	ı	ı	1	0.0	12.9	0.0	2.3	ı	ı	0.0	ı	I
	85.0	1	1	ı	1 1	2.8	2.4	0.0	1 0	ı	1 0	10	1 0
_	55.0	0.0	0.0	ı	0.0	0.0	0.0	0.0	0.0	i	0.0	0.1	0 1
0	65.0	ı	ı	1	0.0	7.7	2.0	٠ ٠ ٠	1 0	1 1	1 1	1 1	l !
	0.0	1 9	1 0	1 1	2.0	•	, v	9.0			0	ı	1
200	0.0	0.0	0.0	1	000	,	•	9.5	, ,	ı	. 1	1	ı
0.00	0.00	0.0	0.0	ı	200	8.	, m	0.0	0.0	1	0.0	ı	ı
	0.00	0 1) 	ŀ	1 1	5.7))))	1	1	1	ŧ	1	1
	0.09	0.0	0.0	1	0.0	0.0	0.0	2.5	0.0	ı	0.0	0.0	0.0
0	65.0	1	ı	1	0.0	5.9	5.9	0.0	0.0	ı	1 -	ı	ı
0	70.0	0.0	0.0	ı	2.8	0.0	0.0	2.4	0.0	ı	1.5	ı	L
0	75.0	1 4	1 (ı	2.8	2.7	0.0	0.0	1 0	1	1 0	1	1 1
0.00	0.0	0.0	0.0	1	0.0	7.7	n c	0.0	0.1	1 1)))	1 1	1
0000	000	1 0		1 1	9.0		0.0		0	. 1	0.0	ı	ı
2		•	•		;	•	:	•) •)		

	. DEC.	
	NOV.	
	OCT.	0010101000110010001010110010010001000001100
	SEP.	
	AUG.	
(cont.)	מתר	
s spp.	JUNE	
Melamphaes spp. (cont.)	MAY	000000004400000000000000000000000000000
Mel	APR.	MOMMM0000V 000 W000W000000000000000000000
	MAR.	
	FEB.	
	JAN.	
	STATION	20000000000000000000000000000000000000
	STA	88888888888888888888888888888888888888

SEP. OCT. NOV. DEC
8.3
8.3 1 1 1 1 0.0 0.0
0.00000
000000044
00000000
000000000
000000000000000000000000000000000000000
00700
00000
0000
0.00
90.0 45.0 55.0
0.

TABLE 4. (cont.)

	DEC.	0.01111111001111	DEC.	1110001111111010000001111
	NOV.	0.011111111001111	NOV.	
	OCT.	000 000 000 8000	OCT.	00000 0 00 00 00 00 00 00 00 00 00 00
	SEP.	000	SEP.	00000000
	AUG.	m m000000000	AUG.	7.000000 000000000000000000000000000000
•	JULY	12.3 12.3 0.0 0.0 0.0 3.2 3.2 0.0 0.0 0.0 0.0	JULY	#00000000 100 10000 0000000000000000000
Poromitra spp.	JUNE	2.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	JUNE	1110000010m000m110000000
	MAY	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 3.1 0.0 3.0 0.0 3.0 0.0 3.0 0.0 3.0 0.0 0.0 0.0	MAY	000000000000000000000000000000000000000
	APR.	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	APR.	10000000 10000 00 10000000
	MAR.	21.01011111111	MAR.	0000 0.000 000 000 000 000 000 000 000
	FEB.	0 0001001070	FEB.	000000000000000000000000000000000000000
	JAN.	00 00	JAN.	0.000000000000000000000000000000000000
	STATION	73.0 80.0 77.0 70.0 87.0 70.0 80.0 85.0 83.0 80.0 83.0 90.0 87.0 86.0 87.0 90.0 90.0 86.0 90.0 86.0 100.0 40.0	STATION	63.0 75.0 77.0 66.0 77.0 66.0 880.0 880.0 77.0 880.0 880.0 880.0 887.0 75.0 887.0 75.0 990.0 990.0 93.0 66.0 93.0 890.0 93.0 85.0 93.0 890.0 93.0 800.0 93.0 900.0 93.0 900.0 93.0 900.0 93.0 900.0 9

DEC. DEC. DEC. SEC. 1 0.0 Š ₹0V. δQ Š ŧ 11400001101000011101010111 0.0 0 & 50 50 SCI 101 0. SEP SEP SEP 1 1 0.000.0 AUG. AUG. AUG. 1.1 (cont.) JULY JULY JOLY 2.8 0.0 JULY Macroramphosus gracilis Scopelogadus bispinosus Syngnathus spp JUNE JUNE 0.0 JUNE JUNE Agonidae 0.0 0.0 MAY MAY MAX MAY 0.0 0.0 APR. APR. 000 0000 000 00 MAR MAR MAR 1 1 1 00000 00 00 000 0.00 FEB E E 0.0 0.0 JAN. JAN JAN ı 53.0 70.0 32.0 75.0 90.0 STATION STATION STATION STATION 70.0 110.0

TABLE 4. (cont.)

	DEC.	0000011		DEC.	1100010000011111111111	DEC.	1111							
	NOV.	0000011	Cottidae	NOV.	11000100000111111111111	NOV.	1111							
	OCT.	000000									OCT.	00000 000000000000000000000000000000000	OCT.	0000
	SEP.	0.011			SEP.	0 00	SEP.	1 1						
	AUG.	0000001					AUG.		AUG.	0.0				
•	JULY	000000		JULY	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	מתר	0000							
(cont.	JUNE	0000000		Cottidae	JUNE	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	JUNE	0.0						
Agonidae (cont.	MAY	0000000			MAY	2.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	MAY	0000						
A	APR.	0.0000000000000000000000000000000000000			APR.	2.6 2.6 0.00 0.00 0.00 0.00 0.00 0.00 0.	APR.	4.000						
	MAR.	0.0 0.0 0.0 0.0				MAR.	0 0000000000000000000000000000000000000	MAR.	0.0					
	FEB.	000000				FEB.	110001000000000000000000000000000000000	FEB.	2 3					
	JAN.	000000		JAN.	00000 000000000000000000000000000000000	JAN.	0.00							
	Z	55.0 55.0 55.0 55.0 29.0 30.0		Z	52.0 52.0 52.0 770	N.	50.0 55.0 29.0							
	STATION	83.0 83.0 83.0 87.0 90.0 100.0		STATION	880.0 880.0 880.0 880.0 882.0 883.0 97.0 1000.0 1000.0 1107.0	STATION	67.0 67.0 70.0 100.0							

TABLE 4. (cont.)

	DEC.	1 1		DEC.	0.0		DEC.	0.00		DEC.	11		DEC.	1111111111111
	NOV.	1 1		NOV.	0.01		NOV.	0.00	2.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	NOV.	1 1		NOV.	1111111111111
	ocī.	0.0		OCT.	0.0		OCT.	00000		OCT.	2.8		ocr.	000000000000000000000000000000000000000
	SEP.	0.0		SEP.	111		SEP.	0.00		SEP.	1 1		SKP.	0 00
	AUG.	0.0		AUG.	000		AUG.	00000		AUG.	0.0		AUG.	
	אחמר	0.0	S	JULY	0.0	2aniolepis spp.	JULY	0000		JULY	0.0		JULY	800000000000000000000000000000000000000
Cyclopteridae	JUNE	0.0	pictus	JUNE	000		JUNE	00000		JUNE	0.0	na spp.	JUNE	000000000000000000000000000000000000000
Cyclop	MAY	5.5	Oxylebius	MAY	2.8		MAY	0.00 0.00 2.88 2.88		MAY	0.0	Scorpaena spp	MAY	000000000000000000000000000000000000000
	APR.	5.0	ŏ	APR.	0.0		APR.	00000		APR.	0.0	•	APR.	000000000000000000000000000000000000000
	MAR.	0.0		MAR.	0.0		MAR.	0.0 0.0 0.0 0.0 0.0	MAR.	0.0		MAR.	000000000000000000000000000000000000000	
	FEB.	0.0		FEB.	000		FEB.	0.00		FEB.	0.0		FEB.	000000000000000000000000000000000000000
	JAN.	0.0		JAN.	2.1		JAN.	0.0		JAN.	0.0		JAN.	00000 00 000 0
		55.0 35.0		N	30.0 30.0		Z	43.0 45.0 28.0 35.0		Z	60.0		Z	744 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	STATION	67.0		STATION	83.0 97.0 103.0		STATION	83.0 87.0 90.0 93.0		STATION	130.0		STATION	100.0 107.0 107.0 1107.0 1110.0 1113.0 1113.0 1118.0 1120.0

TABLE 4. (cont.)

	DEC.		1.1
	NOV.	NOW 11111111111111111111111111111111111	1.1
	OCT.	0.0000000000000000000000000000000000000	00.
	SEP.	0.000000000000000000000000000000000000	111
	AUG.	Add 100.00 1.000 1	1 1 1
nt.)	JOLY	10000000000000000000000000000000000000	, m m
Scorpaena spp. (cont.)	JUNE	S S S S S S S S S S S S S S S S S S S	! ! !
paena s	MAY	Sebastes Spp. NAY 11.6 2.5 11.6 12.6 13.7 13.5 14.8 15.6 16.1 17.6 18.7	18.2
Scor	APR.	APR. APR. 11.0	0.0
	MAR.	MAN	111
	FEB.	0.0 0 0.0000	111
	JAN.	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0
	Z	N 250.00 260	80.0 90.0
	STATION	25	67.0

DEC.	ı	1	1	,	ı	ı	1	ı	ı	1	ı	ı	ı	ı	ı	ı	ı	ı	2.9	23.8	i	4.7	L	18.1	ŧ	ı	ı	ı	1 6	33.5	10./	1 0	0 1	-	9	l	t	ı	1 (2.0	יי	7.71	9.77		• 1	
NOV.	1	1	1	1	1	ı	1	ı	1	ı	ı	ı	ı	ı	ı	1	ı	i	0.0	0.0	ı	5.6	1	0.0	ı	ı	ı	ı	1 0	ر د د	13./	1 4	0.0		0.0	H	ı	ı	1 9	0.0	0.0	0.0.	12.9	•	0.1	
OCT.	3.4	0	0.0	1	0.0	1	0.0	1	0.0	0.0	1	0.0	0.0	ł	0.0	1	ı	0.0	ı	6.2	ı	0.0	1	0.0	i e	0.0	i	0.0	11.6	1 0	0.0	1 0	0.0		0 1		0.0	1 0	0.0	0.0	4.4	14.9	7.7		0.1	
SEP.	1	1	1	ı	ı	1	1	1	1	ı	ı	ı	ı	1	1	1	ı	ı	1	1	1	ı	ı	ı	ı	1	1	ı	ı	ı	ı	ı	1 1	ı	1	ı	ı	1	ı	ı	1	ı	ı	1	1 1	
AUG.	ı	1	1	1	ı	ı	ı	1	1	ı	i	ı	ı	ı	ı	ı	ı	3.0	1	19.3	1	0.0	ı	ı	ı	ı	ı	1 4	0.0	1 0	0.0	1 4	0.0		0.0	7.0	0.0	2.0	0.0	0.0	0.0	3.2	7.9	4.7	13.1	•
JULY	29.8	27.2	0	3.1	9.5	6.2	13.6	17.2	15.7	27.0	1	18.7	0.0	0.0	25.9	6.1	3.5	5.6	1	27.0	ı	3.0	0.0	0.0	0.0	0.0	3.2	3.5	20.4	1 0	0.0	1 5	14.0	,,	, c	0.7	0.0	0.0	٠ ٠	8.2	1.6	15.1	2.2	12.8	4 c	. 4
JONE	ı	1	ı	1	1	ı	ı	ı	ı	ı	ı	1	ı	1	ı	1	1	2.8	ı	9.4	1	9.6	3°3	17.0	1	7.3	4.7	0.0	0.0	1 1	15.2		L . 4	14.0	1:1:	71.7	0.0	0.0		7.3	0.0	0.0	10.2	7.87	200	•
MAY	5.9	7 4 7	23.8))) 1	1	16.4	6.8	17.4	0.0	25.6	1	2.8	15.4	6.8	0.0	0.0	0.0	2.6	1	1	1	24.9	0.9	6.7	20.6	0.0	0.0	0.0	14.8	1 9	22.3	1 0	7.77		D . C	0.0	15.8	0.0	2.4	13.5	0.0	12.8	19.0	, c	2.17	2
APR.	0.0		42.1	36.2	0.0	1	0.0	1	5.2	0.0	ı	0.0	0.0	0.0	0.0	1	ı	2.9	1	0.0	1	0.0	17.0	0.0	ı	0.0	1	0.0	31.0	1 5	30.0	1 0	3.5	0.0	0.0	000	0.0	0.0	0.0	16.3	و ن	47.8	257.8	- C		•
MAR.	ı	1	1	ı	1	1	1	ı	1	1	ı	ı	ı	i	ı	ı	1	1	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	t	ı	1	ı	ı	ł	ı	ı	ı	ı	ŀ	ı	2.6	95.2	ţ	1	1	
FEB.	ı	1	ı	ı	ı	1	1	1	ı	275.9	113.9	9.4	0.0	ı	0.0	1	ı	69.1	78.8	182.4	3.0	0.0	ı	0.0	I	ı	1	1	ı	15.5	18.7	12.8	3.0	1 9	0.0	1 4	0.0	1 1	0.0	31.0	32.2	271.4	133.5	0.67	6.47	
JAN	1	22 7) 	0.0	1	0.0		0.0	103.4	1	8.4	12.0	1	0.0	1	ŧ	11.1	1	16.9	ı	4.6	ı	3.0	ı	1	ı	1 9	53.2	1	132.5	1 6	72.1		4.0	1 4	0.0	1 1	0.0	26.1	19.4	42.7	48.3	221.0	0.0	
NC.	52.0		0.09	20.0	70.0	75.0	80.0	85.0	0.06	51.0	53.0	55.0	0.09	65.0	70.0	75.0	85.0	50.0	53.0	55.0	57.0	0.09	65.0	70.0	75.0	80.0	85.0	0.06	52.0	53.0	55.0	57.0	0.09	90.0	70.0	15.0	80.08	85.0	0.06	47.0	40.0	43.0	51.0	0.00	0000	0.00
STATION	70.0	200	20.0	70.0	70.0	70.0	70.0	70.0	70.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	80.0	80.0	80.0	80.0	0.08	80.0	80.0	80.0	80.0	80.0	80.0	82.0	83.0	83.0	83.0	33.0	0000	000

Sebastes spp. (cont.)

	DEC.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1111
	NOV.	111100116 000240111100000000000000000000000000000	1111
	OCT.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000
	SEP.	0 70077060 807 00000001011	1111
	AUG.		0000
110.	JULY	20000000000000000000000000000000000000	000
PP - 120	JUNE	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	9000
22762	MAY	22 20 20 20 20 20 20 20 20 20	2.8 74.2 32.3 3.0
OCC.	APR.	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.80
	MAR.	1 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3.50
	FEB.	20.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	38.7 2.7 0.0
	JAN.	0.0 1123.0 123.0 123.0 123.0 123.0 123.0 123.0 133.0 144.7 111.1 111.1 12.0 13.0 13.0 14.0 15.0 16.0 17.0 17.0 18.0 1	0000
	NC	0.000000000000000000000000000000000000	40.0 45.0 50.0
	STATION	88888888888888888888888888888888888888	97.0 97.0 97.0

	DEC.	
	NOV.	
	ocr.	0.0000000000000000000000000000000000000
 	SEP.	111111111111111111111111111111111111111
	AUG.	000,0000
nt.)	JULY	0.000000000000000000000000000000000000
Sebastes spp. (cont.	JUNE	22
istes s	MAY	23 3 3 3 3 5 5 6 6 7 5 6 7
Sebi	APR.	22.2 26.6 26.7 27.7 27.7 27.7 27.7 27.7
	MAR.	12000000000000000000000000000000000000
	FEB.	23.00 24.00 25.00 20.00 23.01 23
	JAN.	245.0 17.33.3 17.33.6 18.60.0 19.60
	Z	0.000000000000000000000000000000000000
	STATION	99770 99

TABLE 4. (cont.)

	DEC.			DEC.	0.00
	NOV.			NOV.	0.0
	oc.r.	000 00 0000000040000000000000000000		OCT.	000 111000
	SEP.	8000 000000 00 00		SEP.	0.0
	AUG.	000000000000000000000000000000000000000		AUG.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
nt.)	JULY	000000 0000000000000000000000000000000	Ď.	JULY	0.00
op. (co	JUNE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ds snqo	JUNE	0.000
Sebastes spp. (cont.	MAY	3 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Sebastolobus spp	MAY	111.7 3.1 3.1 6.0 0.0 0.0
Seb	APR.	19.7 19.7 19.7 19.0 19.0 19.0 19.0 19.1 19.1	Se	APR.	100010000
	MAR.	3.10 0.00 0.00 0.00 0.00 0.00 0.00 0.00	1	MAR.	0.0
	FEB.	21.3 20.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.		FEB.	0 000
	JAN.	44000000000000000000000000000000000000		JAN.	0.00111010
	Z	855.0 85		NC	80.0 60.0 65.0 75.0 80.0 80.0
	STATION	120.0 120.0 120.0 120.0 120.0 120.0 123.0 123.0 127.0 127.0 133.0 133.0 133.0 133.0 133.0		STATION	633.0 733.0 733.0 8833.0 90.0

TABLE 4. (cont.)

	DEC.	11111111111111111	1.1000000000000000000000000000000000000
 	NOV.		00000000
	OCT.	26.0 26.0 26.0 26.0 61.7 37.8 32.5 1.7	
	SEP.	0.00 0.00 2.74 2.56 2.56 5.95.6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	000 000 000 000 000 000 000 000 000 00
	AUG.	0.0 0.0 0.0 0.0 0.0 0.0 0.0 136.4 117.4 117.3	00000000000000000000000000000000000000
	JULY	000 0000000000000000000000000000000000	2.7 2.7 2.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
us spp.	JUNE	- 0.0 0.0 0	
Prionotus spp	MAY	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	AAY 00000000000000000000000000000000000
7	APR.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	APR
	MAR.	000 0000000011111	AAR
	FEB.	000 0000000011111	
	JAN.	000 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	TATION	19.0 20.0	### STAPTION ### S

TABLE 4. (cont.)

	DEC.		DEC.	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	
	NOV.		NOV.	0.00 NOM NOM	
	ocr.	00040000000000000	OCT.		
	SEP.	0.00	SEP.	SEP.	
	AUG.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	AUG.	Aug.	
(cont.)	JULY	0.000000004000040000000000000000000000	JULY	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
	JUNE	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	JUNE	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	
Hypsoblennius spp.	MAY	C1 in	MAY	GOD GOD 0.00	
Hypsob	APR.	00 00 00 00 00 00 00 00 00 00 00 00 00	APR.	APR.	
	MAR.	000000000000000000000000000000000000000	MAR.	MAR.	
	FEB.	000000000000000000000000000000000000000	FEB.	00000000000000000000000000000000000000	
	JAN.	00000 00000 00000	JAN.	11.00000000000000000000000000000000000	
	 	4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Z	N N N N N N N N N N N N N N N N N N N	
	STATION	12000 12000 12000 12700 12700 12700 12700 13300 13300 13300 13300 13300 13300 13300 13300 13300 13300 13300 13300	STATION	83.0 83.0 103.0 110.0 1117.0 117.0 117.0 123.0 123.0 137.0 77.0 77.0	

TABLE 4. (cont.)

	DEC.	1 1 2	000	1 1	1 0	000	3.2	0.0		000	0.0	0.0	000	0.0	0.0	0.1	1 1	ı	1	1 1	1	1 1	ı	1 1	1	ı	1 1	1 1	ı
	NOV.	. 0	000	1 1	1 0	000	0.0	0.0	1 (2.5	0.0	0.0	2.6	000	0.0	0.1	1 1	ı	ı	l I	ı	l I	ı	1 1	1	ı	1 1	1 1	1
	oct.	0.0	0.0	1 1	0.0	000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	000	2.3	00	0.0	2.8	0.0	0.0	0.0
	SEP.	111	1 1	1 1	1 1	1	1 1	1 1	ı	1 1	1 1	0.0	0.0	0.0	5.0	0 1	1 (1	1	1 1	ı	1 1	1	800	0.0	0.0	1 1	0.0	2.5
	AUG.	1 1 1	0.0	10	000	000	3.5	0.0	0.0	0.0	0.00	000	0.0	3.1	000	0.0	0.0	0.0	2.0	0.0	1.4	000	0.0	0.0	0.0	0.0	000	0.0	0.0
_	יחני	0001	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	200	000	0.0	0.0	0.00	0.0	0.0	0.0	ວໍາ	0.0	1 0	0.0	0.0	0.0	0.0	0.0	3.0	0,0	0.0
(cont.	JUNE	3.7	0.0	5.7	, m c	000	0.0	6.4	5.0	000	0.0	000	0.0	0.0	0.00	0.0	m c	0.0	0.0	3.0	0.0	000	0.0	0.0	0.0	0.0	0.0	0,0	0.0
Gobiidae (cont.)	MAY	0.0	0.0	0.0	0.00	000	0°0	0.0	0	0.0	000	2.7	0.0	0.0	000	2.4	0.0	3.1	3.2	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
ບ	APR.	0.0	0.0	000	000	000	0.0 0.0	0.0	000	000	000	000	000	2.5	0.00	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	2.4	2.3	000	0.7	2.5
	MAR.	111	1 1	1 1	ı	0.0	2.7	1 1	1	000	0.0	0.0	0.0	0.0	000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0
	FEB.	110	000	1 1	0.0	2.3	12.5	0.0	0.0	0.0	7.2	0.0	0.0		0.00	000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	0.0
	JAN.	1 1 1	2.8		-	000	000	-	0.0	0.0	3.0	0.0	0.0	0.0	1 9	000	0.0	0.0	0.0	0.0	0.0	0.0		-	0.0) (0.0	10	0.0
		85.0	55.0	65.0	80.0	40.0	43.0 51.0	55.0	70.0	35.0	20.0	28.0	32.0	55.0	28.0	30.0	35.0	45.0	29.0	40.0	30.0	45.0	60.09	33.0	35.0	40.0	45.0 60.0	40.0	39.0
	STATION	77.0	80.0	80.0	0.00	83.0	83°0 83°0	83.0	83.0	87.0	87.0	0.06	90.0	0.06	93.0	93.0	97.0	97.0	100.0	100.0	103.0	103.0	107.0	110.0	113.0	113.0	113.0	115.0	118.0

TABLE 4. (cont.)

	DEC.	1 1	1	ı	1 1	1	į	1	1 1	1	ı	ł	ł	ı	ı	ı	ı	ı	ı	1	ı	ı	ı		DEC.	1 1			DEC.	 	000	0.0	
	NOV.	1 1	ı	ı	1 1	1	1	ı	1 1		1	ı	1	ı	ı	ı	ı	ı	ı	ı	ı	ı	I		NOV.	1 1			NOV.	0000	000	0.0	
	OCT.	0.0	0.0	0.0	0.0	3.5	2.2	0.0	2.4	1 4 4	0.0	19.9	5.0	2.5	ı	ı	ı	1	1	ı	ı	1	1		OCT.	0.0			OCT.	0000	900	0.0	
1 	SEP.	2.9	2.6	4.1	2 6	0.0	2.7	2.5	2.7	74.0	0.0	26.2	3.0	ı	ı	i	1	ı	ı	ı	1	ı	ı		SEP.	1 1			SEP.	1 1 1 1	1 1 1	2.8	
	AUG.	0.0	0.0	0.0	2.8	0.0	2.2	0.0	200	0.0	4.4	0.0	1	0.0	1.4	1.7	0.0	9.5	11.9	1	5.6	ı	ı		AUG.	, ,			AUG.	0000	000	000	
•	JULY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	•		0.0	0.0	0.0	1	ı	ı	ı	ı	ı	ı	1	1	icus	JULY	0.0			JULY	0.0 9.6 12.6 2.6	000	000	
(cont	JUNE	0.0	0	0.0	0.0	0.0	8.8	0.0	0.0			0.0	0.0	0.0	ı	ı	ı	1	ı	ı	1	ı	1	nigmat	JUNE	1 1	F	Labridae	JUNE	0.00	0.20	17.8	
Gobiidae (cont.	MAY		ı	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2,3	0.0	0.0	ı	ı	1	١	ı	ı	ı	ı	ı	Icosteus aenigmaticus	MAY	0.9		Labi	MAY	000	000	000	
ы	APR.	0.0	0.0	0.0	0.0	1	ı	ı	0.0	0.0	•	0	0.0	0.0	0.0	0.0	3.2	1	ı	ı	ı	ı	ı	Icos	APR.	2.6	•		APR.	0000	000	000	
	MAR.	0.00		0.0	0.0	0	0.0	0.0	0.0	0.0			0.0	0.0	t	ı	ı	1	1	i	1	ı	ı		MAR.				MAR.	0.0	000	0.0	
	FEB.	0.0		0.0	0.0	0	0.0	0.0	0.0	0.0	•		000	0.0	1	ı	1	1	1	1	ı	ı	1		FEB.				FEB.	0000	000	0.0	
	JAN.	0.0		0.0	0.0	1 0	2.3	0.0	0.0	0.0	0.0			0.0	4.7	0.0	0.0	0.0	0.0	2.7	3.0	5.8	5.9		JAN.	10	•		JAN.	0000	000	0.0	
	NC	33.0																							NO	75.0			NC	55.0 43.0			
	STATION	119.0	120.0	120.0	120.0	121.3	127.0	127.0	130.0	130.0	133.0	133.0	137.0	137.0	140.0	143.0	147.0	150.0	153.0	153.0	153.0	153.0	157.0		STATION	67.0	0.07		STATION	83.0 83.0	87.0	87.0 90.0	

	DEC.	10000 0
	NOV.	0000
	OCT.	
	SEP.	0.0000000000000000000000000000000000000
	AUG.	000000000000000000000000000000000000000
•	JULY	
(cont	JUNE	
Labridae (cont.)	MAY	
Ы	APR.	11.20.7 12.00.
	MAR.	
	FEB.	
	JAN.	
	N.	8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	STATION	9933.00 993

TABLE 4. (cont.)

	DEC.	1 1	ı	ı	1 1	1	ı	1	1 1	1	ı	ı	1	1 1	1	i	1 1	1	1	1 1	1	ı	1-1	ı	ı	1	1	1	ı		DEC.	11111
	NOV.	1.1	ı	1	L	1	ı	1	1	1 1	1	ı	ı	1 1	1	ı	1	1	1	1 1	. 1	1	1 1	ı	1	ı	1 1	1	ı	1	NOV.	1111
	OCT.	0.0	0.0	2.7	2,5	0.0	0.0	1	ب د	,,	0.0	0.0	0.0	0.0	000	5.8	0.0	0.0	71.0	9 6	0.0	0.0	0.0	• 1	ı	ı	1 1	1	ı		OCT.	0.0 0.0 0.0 31.5 2.7
	SEP.	2.5	0.0	0.0	T6.3		ı	1.8	0.0	0	0.0) 	1 .	14.3		0.0	7.7	1 1	0.0	. ° °		ı	1 1	1	1	ı	1 1	1	1		SEP.	14.5 16.3 0.0
	AUG.	0.0	7.9	0.0	8.0	2.9	2.8	ı	0.0	0.0	0.0	2.6	2.8	2.5	2.3	1	0.0	20.0	2.3	0.0	0.0	4.4	œ۰ •	9.0	0.0	0.0	1.5	1.5	2.6		AUG.	14.6 0.0 0.0 0.0
	JULY	0.0	0.0	0.0	7.0		0.0	1	0.0			0.0	2.9	0.0	•	0.0	0.0	2 0	0.0	0.0	. 4 . 8	0.0	0.0	0.0	1	1	1 1	ı	ı		JULY	00000
(cont.	JUNE	0.0	0.0	0.0	0.0	000	0.0	1	4.0	2.0		0.0	0.0	0.0	•	0.0	0.0	٥١	0.0	0.0		0.0	0.0	0.1	1	ı	1 1	ı	1	Pomacentridae	JUNE	00000
Labridae (cont.)	MAY	0.0			0.0		0.0	1	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0	ı	0.0		0.0	0.0	0.0	1	1	1 1	ı	1	Pomacei	MAY	00000
ŭ	APR.	2.8	0.0	0.0	0.0	000	0.0		ı	ı	1 1	1	1	0.0	000	000	0.0	0.0	0.0	0.0	000	0.0	0.0	0.0	000	0.0	0.0	0.0	1		APR.	000011
	MAR.	0.0	00	0.0	0.0	•	0.0))) 	0.0	0.0	0.0	0.0	0.0	0.0	000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		ı	ı	1	,		MAR.	00000
	FEB.	0.0	000	0.0	0.0	000	0.0))))	0.0	0.0	000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1 1	1	ı	1 1	ı		FEB.	00000
	JAN.	0.0		0.0	0.0	000	0.0) 	0.0	1 (0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.6	0.0	0.0	0.0		JAN.	00000
	Z	70.0	27.0	35.0	40.0	45.0	0.09	26.0	37.0	50.0	34.0	4.0.0 0.0.0	60.09	30.0	35.0	25.0	30.0	40.0	36.0	23.0	30.0	40.0	45.0	50.0	40.0	35.0	20.0	55.0	19.0		Z	30.0 33.0 40.0 37.0
	STATION	117.0	120.0	120.0	120.0	120.0	120.0	120.7	123.0	123.0	127.0	127.0	127.0	130.0	130.0	133.0	133.0	133.0	134.0	137.0	137.0	137.0	137.0	137.0	140.0	143.0	147.0	147.0	150.0		STATION	100.0 110.0 120.0 123.0

TABLE 4. (cont.)

				Pomá	Pomacentridae (cont.)	dae (co	nt.)					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DBC.
_	0.0	0.0	0.0	1	0.0	0.0	2.9	0.0	ı	0.0	,	1
133.0 25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ı	2.8	0.0	í	ı
	0.0	ı	ı	0.0	ı	ı	ı	5.1	i	ı	ı	1
	0.0	1	ı	0.0	ı	ı	i	2.7	ı	ı	1	ı
	0.0	1	1	0.0	ı	1	ı	4.0	ı	ı	ı	ı
	0.0	ŀ	ı	ı	1	ı	ı	5.6	ı	ı	ı	•
	0.0	1	ı	ı	ı	1	1	0.9	1	ı	ı	í
	0.0	1	ı	1	ı	ı	ı	1.3	ı	ı	ı	ı
	0.0	1	ı	ı	ı	ı	ł	1.1	ı	ı	1	ı
	0.0	1	ı	ı	1	1	ı	15.3	ı	1	1	ı
153.0 25.0	0.0	1	ı	ı	t	ı	ı	13.2	ı	1	1	ı
	2.3	1	1	ı	1	ı	ı	1	1	1	ı	1
157.0 45.0	2.6	1	ı	ı	ı	ı	ı	ı	ı	1	ı	ı
				Chro	Chromis punctipinnis	nctipin	nis					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	,	0.0	0.0	0.0
·	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	ı	0.0	0.0	0.0
83.0 51.0	0.0	0.0	ŀ	0.0	0.0	0.0	2.2	0.0	ı	0.0	0.0	0.0
83.0 55.0	0.0	0.0	1	0.0	0.0	0.0	2.6	0.0	1 4	0.0	0.0	0.0
93.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0
0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	1	0.0	1	1
0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ກໍ່	ı	0.0	ì	ı
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	υ. Σ	1 0	0.0	ı	ı
_	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	0.0	0.0	l	i
_	0.0	0.0	0.0	0.0	1 0	0.0	0.0	0.0	0.0	0.0	ı	ı
_	0.0	0.0	0.0	ı	0.0	0.0	0.0	0.0	10.3	0.0	ı	ı
_	0.0	0.0	0.0	1 4	0.0	0.0	0.0	0,	7.7	0.0	ı	ı
_	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	ı	ı
_	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1	0.0	ı	ı
137.0 23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	ı	ı
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	I	0.0	1	ı
				Hyp	Hypsypops rubicundus	rubicun	gnp					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0 30.0	0.0	0.00	0.0	10	0.0	0.0	4. 3	0.0	1 1	0.0	1 1	1 1
		2.5	•		2.0	•	•	•		,		

TABLE 4. (cont.)

	DEC.	1 1	ı	1 1	,	ı	ı	ı		DEC.	ı	1 1		ı	1	DEC.	1	0.0	1 1	1	ı	1	1		DEC.		1 1	1	111	ı
	NOV.	1 1	ı	H	1	ı	ı	ı		NOV.	ı	1 1	1 1	ı		NOV.	ı	ı		ı	ı	ı	1		NOV.	11	1 1	1	1 1 1	ı
1	ocr.	0.0	0.0	2.7	ı	ı	i	ı		OCT.	i	0.0	0 0	2.7		OCT.	ı	10	6.0	e m	0.0	0.0	00		OCT.	0.0	ຕຸດ	0.0	0 00 0	0.0
	SEP.	2.6		1 1	1	ı	ı	ı		SEP.	1	1 9	0.1	ı		SEP.	2.7	2.8	1 1	1	ı	10	0 1		SEP.	1.4	0.0	1 1	0 8 0	7.0
	AUG.	0.0	6.0	0.0	4.	5.1	1.0	7.7		AUG.	1	0.0	•	0.0		AUG.	0.0	0.0		0.0	3.1	0.0	0		AUG.	0.0	0.0	20.0	28.7	0.0
	יחני	0.0	0.0	0.0	ı	1	ı	ı		JULY	1	0.0	•	0.0		JULY	0.0	0.0	0.6	0.0	0.0	0.0	2.9		JOLY	5.7	7.9	0.0	000	0.0
spp.	JUNE	0.0	0.0	0.0	ı	ı	1	ı	nidae	JUNE	ı	0.0	•	0.0	spp.	JUNE	0.0	0.0	000		0.0	0.0	0.0	gidae	JUNE	0.0	0.0	0.0	000	0.0
Mugil	MAY	0.0	0.0	0.0	ı	1	ı	ł	Apogonidae	MAY	2.9	0.0	•	0.0	Вгаша	MAY	0.0	0.0	0.0		0.0	0.0	000	Carangidae	MAY	0.0	0.0	0.0	000	0.0
	APR.	0.0	0.0	0.0		0.0	0.0	0.0		APR.	1	0.0	1 1	0.0		APR.	0.0	0.0	•		0.0	0.0	0.0		APR.	0.0	1	1 1	000	0.0
	MAR.	0.0	0.0	0.0	- 1	ı	ı	ı		MAR.	,	1 6	0.0	0.0		MAR.		0.0	0.0	- 1	0.0	0.0	0.0		MAR.	0.0	0.0	0.0	000	0.0
	FEB.	0.0	0.0	0.0	ı I	ı	ı	ı		FEB.		0.0	0.0	0.0		FEB.		0.0	0.0		0.0	1 (0.0		FEB.	0.0	0.0	0.1	000	0.0
	JAN.	0.0	0.0	0.0	•	0.0	0.0	0.0		JAN.		0.0	2.5	0.0		JAN.		0.0	0.0		0.0	2.7	0.0		JAN.	0.0	0.0	0.0	000	0.0
	Z	30.0	40.0	45.0	35.0	26.0	20.0	25.0		Z	120.0	0.06	40.0	50.0			75.0	0.06	35.0	0.00	50.0	80.0	90.0		Z	45.0	37.0	20.0	30.0 25.0	30.0
	STATION	120.0	137.0	137.0	140.0	143.0	147.0	147.0		STATION	I .			130.0		STATION	93.0	93.0	97.0	0.70	100.0	103.0	113.0		STATION	113.0	123.0	123.0	130.0	133.0

TABLE 4. (cont.)

	DEC.		ı	1	ı	ı	ı	i	ı	ı	ı	ı	1	1		DEC.	1		DEC.	1 1	ı	ı	ı	ı	l i	ı		1	ŀ	1	1 1	1	ı	ı	1 1	ı
	NOV.	 	1	ı	ı	1	ı	1	ı	1	ı	ı	I	ı		NOV.	ı		NOV.		ı	1	1	ı	L	ı	1 1	1	ı	ı	1	1 1	ı	1	1 1	ı
	OCT.	0.0	0.0	1	ı	ı	ı	ı	ı	t	ı	ı	ı	ı		OCT.	ı		OCT.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1 0	0.1	0.0	0.0	0.0	0.0
	SEP.		50.5	1	ı	1	ı	ı	ı	ı	ı	ı	ı	ı		SEP.	ı		SEP.		ı	ı	ı	0.0	0.0	ı	ł I	ı	0.0	ı	ı	l I	ı	ı	! !	1
	AUG.	0.0	12.0	1.4	26.2	27.2	5.4	12.0	6.5	3°3	0.0	1.3	3.2	25.5		AUG.	1		AUG.	1.4	9	3.0	3.5	17.5	m c	0.0	•	0.0	3.1	2.8	9.0		0.0	0.0	0.0	0.0
•	JOLY	2.8	0.0	1	ı	ı	ı	ł	ı	ı	ı	1	ı	ı		JULY	1		JULY		0.0	0.0	0.0	0.0	0.0	7.7	14.3	12.0	0.0	3.0	0.0	9.5	0.0	2.5	0.0	2.7
e (cont	JUNE	0.0	0.0	1	ı	ı	ı	ı	ı	1	ı	ı	ı	ı	a spp.	JUNE	1	lalandi	JUNE	0.0	0	0.0	0.0	0.0	0.0	0.0	•	0.0	0.0	0.0	0.0		0.0	0.0	4.0	0.0
Carangidae (cont.)	MAY	0.0	000		ı	ı	ı	ı	1	ı	ı	ı	ı	ı	Seriola	MAY		Seriola.	MAY	0.0		0.0	0.0	0.0	0.0	0.0	•	0.0	0.0	0.0	0.0	0.1	3.0	0.0	9.0	0.0
Ca	APR.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ı	ı	ı		APR.		Š	APR.	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0) 	ı	1 1	ı ı
	MAR.	0.0	000		ı	ı	ı	ı	ı	1	1	ı	ı	t		MAR.	1		MAR.	0.00		0.0	0.0	0.0	0.0	0.0	•	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1 1
	FEB.	0.0)	ı	ı	ı	ı	ı	1	1	ı	ı	ı		FEB.			FEB.	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1 1
	JAN.	0.0	000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0		JAN.	3.0		JAN.	0.0	•	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1 0	0.1	1	1 1	0.0	0.0
	STATION	133.0 35.0		30.	35.	26.	30.	20.	25.	35	55.	19.	45.	16.		STATION	157.0 10.0		STATION	103.0 30.0																

TABLE 4. (cont.)

	DEC.	111111111111		DEC.		ı	ı	1 1	1	ı	ı	1	1 1	1	1	1	ı	۱ ۱	ı	ı	ı	ı	ı	ı	ı	ı	1 1	1 1
	NOV.	11111111111111		NOV.	1	ı	1	i	1	ı	1	L	1 1	ı	ı	ı	1	1 1	ŧ	1	1	ı	ı	ı	1	ı	1 1	1 1
	OCT.	0000 0000000		OCT.	1	ı	1 0	0.0	0.0	0.0	1 4	0.0	0.0)	0.0	0.0	0.0	0.1	0)	0.0	ı	0.0	0.0	0.0	1 4	0.0	0.0
	SEP.	00 00 00 00 00 00 00 00 00 00 00 00 00		SEP.	1	ı	ı	1 1	1 1	1	1	ı	1 1	ı	ı	ı	I	1 1	1	ı	1	1	ı	ı	ı	1	1 :	1 1
	AUG.	11.2 0.0 0.0 2.3 1.3 1.4 0.0 0.0 0.0 0.0 0.8		AUG.		ı	ı	1 1	1 1	ı	ı	ı	H	ı	1	ı	ı	1 1	ı	ı	ı	ı	ı	ı	ı	ı	1	1 1
(cont.)	JULY	000000000000000000000000000000000000000	cns	JULY	3.1	6.0	120.1	8,0	12.4	6.7	10.0	16.6	3 C	16.9	15.0	11.8	3°T	۰. ۳	. 4	23.0	0.0	27.2	42.9	0.0	9.5	7.00	7.12	43.8
_	JUNE	000000000000000000000000000000000000000	Trachurus symmetricus	JUNE		1	1	1 1	1 1	ı	ı	ı	1 1	1	ı	ı	1	1 1	ı	1	ı	ı	ı	ı	1	ı	1	1 1
Seriola lalandi	MAY	000000000000000000000000000000000000000	s snant	MAY		0.0	1.9	0.0	17.5	5.7	0.0	0.0	0.0	0.0	8.8	0.0	0.0	•	, r	0	27.4	1	ı	0.0	1	7.7	٠ د د	5.6
Serio	APR.	00000000	Traci	APR.		0.0	1	5.4	23.2	0.0	1	1	l 1	1	0.0	0.0	0.0	0.1	ı	1	1	1	36.1	3.5	0.0	1 1	6.1	34.1
	MAR.	0000 0000000		MAR.		i	ı	ı	1 1	1	ı	I	H	I	ı	1	I	1 1	ı	ı	ı	ı	ı	ı	ı	ı	ı	1 1
	FEB.	0000 0000000		FEB.		ı	1	ı :	1 1	ı	ı	ı	i I	ı	ı	ı	ı	1 1	1	1	ı	ı	ı	ı	ı	ı	ı	1 1
	JAN.	0000 0000000		JAN.		ı	1 -	0.0	0.0	0.0	1	0.0	1 1	1	0.0	0.0	0.0	0.0	0	• 1	ı	1	0.0	0.0	0.0	1 9	0.0	0.0
	Z	4.000 4.000 6.0000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.00000 6.0000 6.0000 6.0000 6.0000 6.0000 6.0000 6.0000 6.			0 00	65.0	75.0	80.0	0.06	60.09	65.0	70.0	0.08	85.0	0.06	50.0	22.0	0.09	20.02	75.0	80.0	85.0	0.06	55.0	70.0	75.0	0.00	90.06
	STATION	127.0 127.0 127.0 130.0 1330.0 133.0 143.0		STATION	57.0	60.09	0.09	0.09	0.09	63.0	63.0	63.0	03.0	63.0	63.0	67.0	67.0	0.79	0.79	67.0	67.0	67.0	67.0	70.0	70.0	70.0	70.07	70.0

(cont.)

Trachurus symmetricus

MON Ş S SEP JOLY APR. E 55.0 660.0 770 STATION

TABLE 4. (cont.)

Mar. Part Mar. Mar. Mar. Mar. July													
985.0 987.0 98	NO	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JOLY	AUG.	SEP.	OCT.	NOV.	DEC.
9500 9500			1 1		11.9	5.9	0.0	0.0	0.0		1		
22.6 2.0		1 4	0.0	10	79.5	17.8	0.0	0.0	0.0	1 9	0.0	1 0	1 6
750		0.0	0.0	0.0	0.0		ט הינ	0.0	0.0		•	•	90
7500		0.1	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75.0 0.0 0.0 168.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		ı	1	0.0	1	0.0	0.0	3.2	0.0	0.0	ı	ı	1
75.0		1	0.0	0.0	168.2	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0
88.0		ı	ı	i	56.2	33.8	2.1	0.0	0.0	0.0	ı	1	1
88.50 100.00		ŀ	0.0	5.6	5.8	33.8	8.8	0.0	0.0	0.0	0.0	0.0	0.0
190.0		ı	1	1 (0.0	18.6	ı	0.0	0.0	0.0	10	ı	1 9
1100.0 120.0 1		ı	0.0	0.0	0.0	5.7	ı	0.0	0.0	7.6	0.0	ı	0.0
128.0		ı	ı	ı	ı	8,3	1	ı	ı	0.0	ı	ı	0.0
128.0.		ı	ı	ı	1	11.6	ı	ı	ı	0.0	ı	ı	1
288.0		ı	ı	ı	ı	17.5	ı	ı	ı	0.0	ı.	1	1
33.0 0.0 <td></td> <td>ı</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>3.4</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td>		ı	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0
46.0 0.0 <td></td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>2.8</td> <td>0.0</td> <td>0.0</td>		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0
55.0 0.0 <td></td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>8.3</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>2.9</td> <td>0.0</td>		0.0	0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0
55.0 0.0 2.9 17.4 2.8 20.0 0.0<		0.0	0.0	2.9	23.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55.0 0.0 <td></td> <td>0.0</td> <td>0.0</td> <td>2.9</td> <td>17.4</td> <td>2.8</td> <td>20.0</td> <td>0.0</td> <td>0.0</td> <td>2.7</td> <td>0.0</td> <td>0.0</td> <td>0.0</td>		0.0	0.0	2.9	17.4	2.8	20.0	0.0	0.0	2.7	0.0	0.0	0.0
65.0				7 P	11.3		9				0.0		0.0
65.0						o c	, ,	•					
70.0 0.0 - 2.3 45.1 0.0 6.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0)))	٥١		30.0			8))))))
75.0 75.0 80.0 0.0 0.0 14.3 78.6 12.9 0.0		0	1	2 3	45.5	•					9	0	0
85.0				, 1	1.54		•	2.0		2.0)))
85.0 90.0		0	0	-	7.0.7	200	0.0		•		0	0	0
99.00 0.0 </td <td></td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>T#*</td> <td>0.00</td> <td>0.40</td> <td></td> <td>•</td> <td>•</td> <td>• 1</td> <td></td> <td>• 1</td>		0.0	0.0	0.0	T#*	0.00	0.40		•	•	• 1		• 1
32.0 0.0 <td></td> <td></td> <td></td> <td></td> <td>7.0</td> <td>7.07</td> <td>6.4.2</td> <td>,</td> <td>•</td> <td></td> <td>1</td> <td></td> <td>0</td>					7.0	7.07	6.4.2	,	•		1		0
45.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		•	•		0 0		0.0		•		0		0
45.0 55.0 60.0		0.0	0.0		0.0	•	,	90	•	1 1			
55.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		0.0	0.0	0.0	0,	0.0	0.0			ı	•	1 :	1
55.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		0.0	0.0	9.0	11.0	0.0		•	•	ı			
55.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		0.0	0.0	0.0	11.0	0.0		0.0		,	•	ı	
65.00		0.0	0.0	0.0	1 5	0.0	6.70	1 4	0.0	ı	0.0	ı	ı
75.0		0.0	0.0	7.7	8.12	0.0	21.8	0.0	0.0	ı	0.0	ı	1
$egin{array}{cccccccccccccccccccccccccccccccccccc$		1	1	ı	0.0	17.0	45.7	20.00	0.0	i	1 (ı	ı
75.0		0.0	0.0	ı	11.3	11.8	16.1	24.9	0.0	ı	0.0	ı	1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		ı	ı	ı	24.3	6.2	21.4	5.7	0.0	ı	ı	ı	ı
85.0		0.0	0.0	ı	0.0	20.5	23.5	8.4	0.0	ı	0.0	ı	1
90.0 0.0 0.0 0.0 0.0 0.0 0.0 5.8 2.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		ı	ı	1	0.0	16.9	7.0	0.0	0.0	ı	ı	ı	ı
29.0 0.0 0.0 0.0 0.0 0.0 3.2 0.0 0.0 0.0 35.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		0.0	0.0	ı	0.0	5.8	2.6	0.0	0.0	1	0.0	ı	ı
35.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	1	0.0	ı	1
40.0 - 0.0 2.6 0.0 72.4 0.0 0.0 0.0 - 45.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	ı	0.0	ı	ı
45.0 0.0 0.0 0.0 0.0 3.0 2.8 0.0 0.0 - 50.0 0.0 0.0 0.0 0.0 12.2 0.0 2.8 0.0 - 55.0 - 0.0 0.0 2.7 28.8 0.0 - 60.0 0.0 37.3 6.1 5.8 0.0 -		ı	0.0	2.6	0.0	72.4	0.0	0.0	0.0	1	0.0	ı	ı
50.0 0.0 0.0 0.0 0.0 0.0 12.2 0.0 2.8 0.0 - 55.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.		0.0	0.0	0.0	0.0	3.0	2.8	0.0	0.0	1	0.0	i	1
55.0 - 0.0 0.0 2.7 28.8 0.0 17.4 0.0 - 60.0 0.0 3.6 0.0 0.0 37.3 6.1 5.8 0.0 -		0.0	0.0	0.0	0.0	12.2	0.0	2.8	0.0	1	0.0	ı	1
60.0 0.0 3.6 0.0 0.0 37.3 6.1 5.8 0.0 -)))	0.0	0	2.7	28.8	0.0	17.4	0.0	1	0.0	ı	1
		c	9 0										

TABLE 4. (cont.)

	DBC.		1	1	ı	1	1	ı	ı	ı	1	1	t	1	1	1	1	ı	I	ı	ı	ı	ì	ı	ı	1	1 1	ı	ı	ı	1	ı	۱ ۱	1 1	ı			DEC.	1 1	ı	1 1	
	NOV.		1	1	1	1	ı	ı	ı	ı	1	ı	ı	ı	ı	ı	ı	1	ı	1	1	ı	ı	ı	1	ı	1 1		ı	1	ı	ı	1	1 1	ı			NOV.	1 1	ı	ΙΙ	
	OCT.	1	0		0	• 1	0.0	0.0	0.0	0	0.0	0	0.0	1	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	1 0		0.0			OCT.	0.0	0.0	0.0	
	SEP.		1	ı	ı	ı	ı	1	1	1	ı	ı	ı	ı	ı	1	ı	1	ı	1	ı	ı	1	0.0	0.0	ı	ı ı	1 1	1	1	ı	10	6 . 7	10)))			SEP.	0.0	r - 1	0.0	
•	AUG.			,	•				7.				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	200		0.0		0.0	1 6	•	2.8			AUG.	0.0	2.9	3.2	
(cont.	JULY		0	, ,	, c	,			1	0				0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.8	0.0	2.8	0.0	0.0	2.6	7.7	, r	2.0		3.0	1 9	0.0	0.0	5112		JULY	0.0	0.0	0.0	
tricus	JUNE	-			,,,	26.0	0.0				000	80		19.8	5.8	6.1	0.9		0.0		0.0	5.6	5.3	0.0	0.0	0.0	0.0	0.0			0.0	2.7	1 9	0.0	0.0	hinnurne	TA TITLE	JUNE	0.0	0.0	0.0	
Trachurus symmetricus	MAY			,,	2.0	9.0	90	, r.			18.6	17.0		0.0	5.9	0.0	0.0	3.0	2.8	2,5	0.0	0.0	0.0	0.0	2.7	3.1	0.0		•		0.0	0.0	1 4	0.0	0.0	Cochama	Aprident	MAY	10	0.0	0.0	
rachuru	APR.		0 0	9 1	•	•					•			10	0.0	0.0	0.0	0.0	0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	•		2.6	2.3	1 0	0.0		200	100	APR.	2.5	0.0	1 1	
I	MAR.		1	1	l 1	1 1	1 1	-		•	•	•	•	•	0.0))))	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	1 0	0.0	0.0			MAR.	0.0	0.0	0.0	,
	FEB.		1 4	0.0		0.1	c 1 C		•					٥	0.0)	1	0.0		000	0.0		1	0.0	0.0	0.0	0.0	0.0	0.0	-		0.0	1	0.0	0.0			FEB.	0.0	0.1	0.0	,
	JAN.		1 0	0.0		0.0		•		0.0		•	•)))	0.0)))	0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-		0.0	1 4	0.0	0.0			JAN.	0.0	0.0	000	,
	Z											0.00																							60.09			NO	35.0	70.0	45.0	>
	STATION		T00.0	100.0	100.0	100.0	100.0	100.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	107.0	107.0	107.0	107.0	107.0	107.0	110.0	110.0	110.0	110.0	110.0	110.0	113.0	113.0	113.0	115.0	117.0	127.0			STATION	120.0	120.0	127.0	1

TABLE 4. (cont.)

FEB. M	Σ	MAB		orypha APR.	Coryphaena hippurus APR. MAY JUNE	JUNE	(cont.)	AUG.	SEP.	OCT.	NOV.	DEC.
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0000		0.00		000	0000	0000	2.0	0.0 8.6 5.1	000	1 1 1	
0.0 0.0	0.0		0.0		0.0	0.0	0.0	1.7	4.4	00.0	1-1	
0.0 0.0	0.0		0.0		0.0	0.0	0.0	3.6	3.0	0.0	1 1	1 1
1 1	1 1		000		1 1	1 1	1 1	1.7	1 1	1 1	1 1	1 1
1	ı		0.0		ı	ı	ı	0.0	ı	1	ı	ı
1 1	1 1		0.0		1 1	H	łi	9.6	1 1	1 1	1 1	1 1
1	1		0.0		ŀ	1	ı	1.5	ı	1	1	1
1	ı		0.0		1	ı	ı	1.0	ī	1	1	1
1	ı		ı		ı	ı	1	1.0	ı	ı	ı	ı
11	1 1		1 1		1 1	1 1	1 1	1,0	1 1	1 1	1 1	ı
1			ı		ı	ı	ı	1.6	1	ı	ı	ı
1	1		ı		1	ı	ı	1.7	ı	1	1	I
	1		1 1		1	1	1	9.4	1	1 (1 1	1 1
					Gerr	Gerreidae						
JAN. FEB. MAR. APR. M	MAR. APR.	APR.		Σ	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
0.0 0.0 0.0 0.0 0.0 0.0	0.0	0000			000	000	000	10.3	17.1 3.1 2.8	000	111	111
0.0 0.0 0.0	0.0	0.0			0.0	0.0	0.0	0.0	39.2	0.0	1 1	1 1
0.0	0.0	0.0		' '		1		1.4	1		1	ı
1	1	I	П	-	Jaemu	Haemulidae						
JAN. FEB. MAR. APR. M	. MAR. APR.	. APR.		Σ	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
0.0000000000000000000000000000000000000	0.00	0.00			00000	00000	00000	2.9 26.9 21.8	11000	00000	1 1 1 1 1	1 1 1 1 1
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0	0000		0010	00.	0000	0000	1.5	0.00	0000	1 1 1	1 1 1
0.0 0.0 0.0 0.0	0.0 0.0	0.0		_	0.0	0.0	0.0	F. 8	0.0	0.0	1	ı

TABLE 4. (cont.)

				На	emulida	Haemulidae (cont.	t.)					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JOLY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	3.0	0.0	1 1	1 1
				Gi	rella n	Girella nigricans	St					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0 37.0 127.0 34.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	1.8	1 1	1 1
				Media	luna ca.	Medialuna californiensis	ensis					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0		0.0		
				Caul	Caulolatilus	is princeps	ceps					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	0.0	0.0	F 1	1 1
127.0 34.0	2.3	0.0	0.0	1 1	0.0	0.0	0.0	0.0	0.0	0.0	1	1
0	1 (1 4	1 0	1 0	0.0	0.0	0.0	3,1	1	10	ı	ı
0.0	0.0	000	0.0	0.0	0.0) . V	1.0	1 1	0.0	1 1	
	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	ı
137.0 30.0 137.0 35.0	0.0	0.0	0.0	0.0	0.0	000	2.4	0.0	0.0	000	1 1	1-1
					Mull	Mullidae						
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
l	0.0	0.0	0.0		0.0	0.0	0.0	0.0	2.6	0.0	ı	ŀ
130.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8	0.0	1 1	1 1
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	• 1	3.0	2.5	ı	ı
					Priaca	Priacanthidae						
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0 23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	ı	1

TABLE 4. (cont.)

						Sciae	Sciaenidae						
STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	ocr.	NOV.	DEC.
	52.0	28.9	ı	ı	1	0.0	ı	0.0	ı	1			
	55.0	5.6	ı	1	1	0.0	ı	0.0	ı	1	•	1	1 1
	50.0	7.4	i	ı	0.0	0.0	1 0	0.0		ı			•
	55.0	0.0	9"6		0.0	1 (0.0	0.0	0.0	1		0.	•
	52.0	12.1	t		0.0	0.0	0.0	0.0	0.0	1	•		•
80.0	55.0	0.0	0.0	ı	0.0	0.0	0.0	3.2	0.0	ı	0.0	0.0	0.0
	75.0	1	ı		0.0	0.0	2.9	0.0	0.0	1	1 9	1 0	1 9
	47.0	40.6	101.5		0.0	0.0	0.0	0.0	0.0	ı	0.0	0.0	0.0
	0.04	7.8.2	57.5		0.0	0.0	0.0	0.0	0.0	ı	0.0	2.3	3.6
	0.01		46.8		0.0	0.0	0.0	0.0	0.0	ı	0.0	0.0	0.0
	0.01					0	0.0	0.0	0.0	i	0.0	0.0	0.0
	0.00	0.01	,					0	0.0	ı	0.0	1	1
	0.07	1 1	0.0		,	,,				0	0.0	0.0	0.0
	28.0	5.5	19.6		0.0	. 7				0			
	37.0	0.0	0.0		0.0	0.0		•	•	9 0			
	28.0	1	0.0		T • 9T	0.0	0.0	0.0		0.0			
	55.0	0.0	2.9		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	30.0	2.1	0.0		ı	0.0	0.0	2.1	0.0	1	0.0	ı	ı
	29.0	0	2.3		0.0	0.0	0.0	0.0	0.0	1	0.0	ı	ŧ
	30.0		2.0		0.0	0.0	0.0	0.0	0.0	ı	0.0	ł	1
	20.00		10				0.0	2.8	0.0	ı	0.0	ı	ı
	0.0							1	0.0	ı	0.0	1	ı
	30.0	0.0	11.0		•	900		ı		1	0.0	ı	1
	35.0	0.0	2.3		•	900		0	2.0	1		ŀ	1
	32.0	0.0	0.0		0.0	•	•	, ,		1		ı	ı
	35.0	0.0	0.0		0.0	0.0	0.0		, c	. 1	9	1	ı
	75.0	ı	1		0.0	0.0	0.0	0.0	,	1 :			ı
	45.0	0.0	0.0		0.0	0.0	0.0	0.0) (1 0	•	1 1	
	30.0	0.0	5.6		0.0	0.0	0.0	1 0	4.0		•		ı
	33.0	0.0	0.0		0.0	i	0.0	0.0	0.0	7.0	000	1	1 1
	25.0	0.0	0.0		0.0	ı	1.6	0.0	0.0	0.0	0.0	ŀ	ŀ
	40.0	0.0	0.0		0.0	0.0	0.0	0.0	2.8	7.7	0.0	ŧ	i
	70.0	0.0	0.0		0.0	0.0	0.0	0.0	2.8	1 9	0.0	ı	1
	37.0	0.0	0.0		1	0.0	0.0	0.0	0.0	10.3		ı	1
	42.0	0.0	0.0		ı	0.0	3.0	0.0	0.0	0.0		ı	
	34.0	0.0	0.0		ı	0.0	0.0	0.0	49.3	0.0	•	ı	
	40.0	0.0	0.0		1	0.0	0.0	0.0	7.7	9.7		ı	1 1
	45.0	0.0	0.0		ı	0.0	5.3	0.0	2.6	0.0	0.0	i	ŀ
	50.0	0.0	0.0		ı	0.0	0.0	0.0	3.2	1 4	0.0	ı	ı
	30.0	0.0	0.0		2.2	0.0	0.0	0.0	0.0	0.0	0.0	ı	i
	55.0	0.0	0.0		0.0	0.0	5,3	0.0	0.0	ı	0.0	ı	ı
130.0	0.09	0.0	0.0	0.0	0.0	0.0	23.7	0.0	0.0	ı	0.0	l	1 1
_	65.0	1	1		1	1	5.7	0.0	0.0	1 9	1 0	1	1 1
_	30.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	10.3	•	1 1	
	23.0	6.3	0.0		0.0	0.0	0.0	4. 7	11.0	71.0	2.0		ı
0	30.0	0.0	0.0		0.0	0.0	0.0	2.1	7	0.1	C • 7	ı ı	
0	30.0	0.0	ı	ı	0.0	ı	ı	ı	100	1	1	1	ı
143.0	26.0	0.0	ı	ı	0.0	ı	ı	1	10"	ı			

TABLE 4. (cont.)

					Sc	Sciaenidae (cont.)	ie (cont	·:					
STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JOLY	AUG.	SEP.	ocr.	NOV.	DEC.
143.0	30.0	0.0			0.0	1 1	1 1	1 1	5.4	1 1	1 1	1 1	1.1
						Serra	Serranidae					1	!
STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	ocT.	NOV.	DEC.
0.08	55.0	0.0	0.0	10	0.0	0.0	0.0	3.2	0.0	10	0.0	0.0	0.0
0.0	29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	1	0.0	1	1
0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	1 1	o. 0 I	1 1	1 1
107.0	65.0	· · ·			0.0	0.0	0.0	. 8	0.0	ı	•	i	ı
0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	1	0.0	Į I	1 1
11/0	0.02			0.0	000	000	0.0	000	0.0	1	2.7	ı	ı
	30.0	0.0	0.0	0.0	0.0)	0.0	2.6	0.0	0.0	0.0	ı	1
120.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	ı	i
٠,	50.0	0.0	0.0	0.0	0.0	0.0	000	200	۰ ۲	1 1	0.1	1 1	1 1
	37.0	0.0	0.0	0.0		0.0	0.0	0.0	3.0	5.1	7.0	ı	1
123.0	50.0)	0.0	0.0	ı	0.0	0.0	0.0	2.9	1	0.0	1	1
123.0	55.0	ı	0.0	0.0	I	0.0	0.0	0.0	2.0	1	0.0	1 (1 1
123.0	65.0	7	د ا د	1 0	1 1	•		70		0.0	15.4	ı ı	ı 1
127.0	45.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	2.5	0.0	1	ı
127.0	55.0) - -	0.0	0.0	ı	0.0	0.0	2.8	0.0	ı	0.0	ı	1
127.0	0.09	0.0	0.0	0.0	ı	0.0	0.0	0.0	2.8	ı	0.0	ı	1
127.0	65.0	1 0	1 9	1 0	10	0.0	0.0	0.0	2.03	14.3	α .	1 1	1 1
130.0	35.0		0.0	000	0.0	000	000	0.0	0.8	0.0	0.0	1	ı
130.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	ı	ı
130.0	70.0	1 9	1 4	1 0	1 0	1 0	2.9	0.0	0.0	1 1	0.0	ı	ı
133.0	25.0	0.0	0.0	0.0	0.0	0.0	000	0.0	62 7	1./1	۲/۰۵	1 1	1 1
133.0	35.0	•	•					0.0	0.20	• 1	2.0	1	1
133.0	55.0	0.0	• 1) 	0.0))))	0.0	0.0	ı	2.5	ı	ı
133.0	70.0	1	ŀ	1	1	1	1	0.0	9.0	ı	0.0	i	1
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	37.1	61.7	ı	1
137.0	30.0	000		-		0.0	000	0.0	0.0	63.0	20.0	1 1	
137.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	1	5.5	ı	ι
137.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	ı	0.0	ı	1
0	30.0	0.0	1	1	0.0	ı	ı	1	4 ° T	1 1	1 1	H	1 1
140.0	35.0		1 1	1 1	0.0	ıı	1 1	1 1		1 1	l I		1
_	40.0	0.0	ı	ì	0.0	I	ı	I	•				

TABLE 4. (cont.)

					Se	rranida	Serranidae (cont.)	(•:					
STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
143.0	26.0	0.0		,	0.0	1	,	1	90.1	ı	ı	1	1
143.0	30.0	0.0	1	1	0.0	ı	ı	ı	22.8	ı	1	ı	ı
143.0	50.0	0.0	ı	ı	0.0	ı	ı	ı	4.2	ı	ı	ı	ı
147.0	20.0	0.0	ı	ı	0.0	í	1	ı	2.5	ı	1	ı	ı
147.0	25.0	0.0	ı	1	0.0	ı	ı	ı	28.1	ı	ı	ı	ı
147.0	35.0	0.0	ı	ı	0.0	ı	1	ı	1.6	ı	ı	ı	ı
147.0	45.0	0.0	1	ı	0.0	ı	ı	ı	2.5	ı	ı	ı	ı
150.0	19.0	0.0	i	ı	ı	ı	ı	ı	15.8	1	ı	1	!
150.0	25.0	0.0	F	ı	ı	ı	ı	i	1.9	i	ı	ı	ı
150.0	35.0	0.0	ı	1	1	1	ı	t	1.3	ı	ı	ı	ı
150.0	40.0	0.0	i	ı	1	ı	ı	ı	4.7	ı	t	ı	í
153.0	16.0	0.0	ı	ı	ı	ı	ı	i	1.7	ı	1	ı	ı
153.0	35.0	2.3	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı
157.0	10.0	3.0	1	ı	ı	ı	ı	ı	ı	1	ı	1	ı
157.0	25.0	2.3	i	i	ı	ı	ı	1	ı	ı	ı	ı	ı
157.0	30.0	2.3	ı	ı	ı	ı	ı	ı	ı	ı	ł	ı	1
						Gemov	Gempylidae						
						7.3							
STATION	7.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCIE.	NOV.	DEC.
0.06	145.0	ı	ı	1	1	2.8	1	ı	ı	1	ı	ı	1
140.0	55.0	1.9	1	ı	0.0	I	ı	ı	0.0	ı	i	1	1
150.0	40.0	0.0	1	ı	ı	ı	ı	1	1.6	ı	ı	ı	ı
153.0	25.0	0.0	1	ı	ŀ	ı	ı	ı	1.9	ı	I	ı	ı
						Scomb	Scombridae						
STATION	7	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113 0	35.0	0 0	0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	1	,
133.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0)))	0.0	ı	1
134.0	36.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	16.8	0.0	ı	1
						Auxis	s spp.						
STATION	z	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JOLY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0 130.0 133.0	65.0 30.0 30.0	0.0	0.0	0.0	0.0	000	000	000	2.9 28.7 86.9	000	0.0	111	111
137.0	30°0 40°0	000	000	000	000	000	000	000	33.6 1.66	23.8	000	1 1 1	1 1 1
140.0	40°0 45°0	000	0 1 1	9 1 1	000		9 1 1)))))	24.5 54.3	1 1) 	1 1	1.1

TABLE 4. (cont.)

	DEC.			. 1	ı	ı	ı	ı	1	ı	ı	ı	ı	ı		1	DEC.	ı	ı	1		DEC.		ı	ı	1	ı	ı	1 1			DEC.	1 10000	00
	NOV.	•	,		ı	ı	1	ı	ı	ı	i	1	ı	ı			NOV.	1	ı	1		NOV.	1 1	1	ı	ı	ı	ı	1 1			NOV.	0000	00.0
	OCT.				ı	ı	1	ł	ı	ı	ı	ı	1	ı			OCT.	1	í	1		OCT.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	•		ocr.	00000	0.0
	SEP.			1	ı	ı	ı	f	1	1	,	ı	ı	ı			SEP.	,	ı	ı		SEP.	0.0	0.0)	1	7.7	1 9	•	•		SEP.	11111	1 1
	AUG.	2 2	3 1	000	. n	4.6	10.5	8.6	1.9	5	2.0	2.0	1.5				AUG.	1.5	2.2	1.3		AUG.	000	0.0	0	0.0	0.0	0.0	0.0			AUG.	00000	00.0
•	מתר			ı	ı	ı	ı	1	1	1	ı	ı	ı	ı			JOLY	ı	ı	1	ĭ,	JULY	0.0	0		0.0	0.0	2.8	0.4	1.0	S	JULY	wwww. w4.4.4.0.00	5.1
. (cont	JUNE		ı	ı	ı	ı	ı	ı	1	ı	,	1	ı	ı		dde en	JUNE	-	1	ı	liensi	JUNE	5.0		7.01	3.0	0.0	0.0	0.0	0.0	aponicu	JUNE	00000	0.0
Auxis spp. (cont.)	MAY		1	ı	ı	ı	1	ı	ı	ı	1	- 1		1	04	na cristian	MAY		1	ı	Sarda chiliensi	MAY	0.0		0	0.0	0.0	0.0	0.0		Scomber japonicus	MAY	00000	0.0
Au	APR.		0.0	0.0	0.0	0.0	0.0	0.0				1		1			APR.	0.0	0.0	1	Sā	APR.	0.0			0	0.0	0.0	0.0	0.0	Sc	APR.	00000	000
	MAR.		1	ı	į	ı	ı	ŧ	ı	1			1 1	1			MAR.		ŀ	1		MAR.	0.0				0.0	0.0	2.7	0.0		MAR.	0.0	1 1
	FEB.		ı	ı	ı	ı	1	1	ı	ı		1 1	1 1	1			FEB.		i	ı		FEB.	0.0		•		0.0	0.0	0.0	0.0		FEB.	11000	0.0
	JAN.		0.0	0.0	0.0	0.0	0.0		•	•	•	•	•	14.9			JAN.	0.0	0	0.0		JAN.	0.0				0.0	0.0	0.0	0.0		JAN.	10000	00.0
	Z	-	35.0	45.0	20.0	55.0	20.0	25.0	0.0	20.00	0.00	19.0	20.0	10.0			Z	20.0	25.0	19.0		Z	33.0	35.0	20.00	0.00	30.0	35.0	23.0	30.0		Z	75.0 52.0 55.0 47.0	51.0 55.0
	STATION	100	143.0	143.0	143.0	143.0	147.0	147.0	147.0	147.0	150.0	150.0	120.0	157.0			STATION	147.0	147.0	150.0		STATION	110.0	120.0	130.0	130.0	133.0	133.0	137.0	13/00		STATION	67.0 80.0 82.0 83.0	83.0 83.0

	DBC.	
	NOV.	00000000
	OCT.	000000000000000000000000000000000000000
	SEP.	
	AUG.	000000000000000000000000000000000000000
(cont.)	JULY	0004.000000000000000000000000000000000
	JUNE	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Scomber japonicus	MAY	000000000000000000000000000000000000000
Scomber	APR.	
	MAR.	
	FEB.	
	JAN.	000 0000000 000000 0 000000 00 000000400000
	7	28.50 29.50 20.50 20.50 20.50 20.50 20.50 20.50 20.50 20.50
	STATION	87.0 87.0

TABLE 4. (cont.)

147.0 25.0 4.0					Scompe	Scomber japonicus		(cont.)					
25.0 6.0 $\frac{8.3}{5.0}$ $\frac{1}{2}$ \frac	STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	מתרג	AUG.	SEP.	ocr.	NOV.	DEC.
25.0 9.0 0.0 0.0 0.0 0 - 0.0 0 - 0.0	1	8.3	1		0.0	1	1	ı	0.0	ı	ı	1	8 1
16.0 4.7		4.0	1 1	1 1	0.0	1 1	1 1	1 1	0.0	1	1	, 	1
16.0 5.0 - - - - - - - - -		4.7	ı	1)	ı	ı	ı	0.0	ı	1	1	ı
NATIONAL SERIOR MAR. AFR. MAY JUNE JULY AUG. SEP. OCT. NOV. 30.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		5.0	1	1	ı	1	ı	ı	0.0	ı	ı	ı	ı
NO. JAN. FEB. MAR. APR. HAY JUNE JULY AUG. SEP. OCT. NOV. $\frac{26.0}{30.0}$ 0.0 $\frac{1}{2}$ $\frac{1}{2$					Sc	omberon	norus s	pp.					1
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
Thurnus albacares S5.0 0.0	1	0.0	1 1		0.0	11	1 1	11	1.7	1.1	1 1	1 1	1 1
NO. JAN. FEB. MAR. APR. MAY JUNE JULY AUG. SEP. OCT. NOV. 25.0 0.0 0.0 1.5 - 1.5 - 1.5 1.5 25.0 0.0 0 0.0 1.5 - 1.5 1.5 Trichiuridae NO. JAN. FEB. MAR. APR. MAY JUNE JULY AUG. SEP. OCT. NOV. 32.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0					Th		lbacar	Sa					
Trichiuridae Tr	STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	oct.	NOV.	DEC.
Trichluridae Trichluridae 32.0 30	1	0.0	1 1		0.0	11	11	1 1	1.5	1 1	1 1	1.1	1 1
32.0 O.0 O.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td>Trichi</td> <td>iuridae</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						Trichi	iuridae						
32.0 30.0	STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
	97.0 100	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	800000000000000000000000000000000000000	0.0000000000000000000000000000000000000	0.0 0.0 22.8 33.1	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		

TABLE 4. (cont.)

	DEC.	
	NOV.) O O O O O O O O O O O O O O O O O O O
	OCT.	23.0 27.0
	SEP.	SEP 11.5
	AUG.	AUG.
nt.)	מתר	ea
lae (co	JUNE	argent
Trichiuridae (cont.)	MAY	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Tri	APR.	APR Spi
	MAR.	0.0000000000000000000000000000000000000
	FEB.	
	JAN.	
	Z	X X X X X X X X X X
	STATION	117.0 120.0 120.0 1220.0 123.0 123.0 123.0 123.0 123.0 123.0 133.0 133.0 133.0 133.0 133.0 133.0 140.0 140.0 143.0 140.0

TABLE 4. (cont.)

JAN. FEB. MAR. APR. JUNE JUNE JUNE AGG. SEP. OCT. NOV. DI 1.7 1.0 1.					Sphyrae	Sphyraena argentea		(cont.)			1		
FEB. MAR. APR. MAY UNINE JULY ANG. SEP. 0.0 Co. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	!	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	ocr.	NOV.	DEC.
Test	ĺ	0000	0000	0000	0000	0000	1.7 2.9	1100	0.40	0.0	0000	1111	1111
FEB. MAR. APR. MAY JUNE JULY ANG. SEP. OCT. NOV. FEB. MAR. APR. MAY JUNE JULY ANG. SEP. OCT. NOV. - Comparison of the		0000	0000	0000	0010	0000	7000	000	22.50	000	0000	111	1 1 1
Tcichthys lockingtoni		000	0011	0011	0001	0 1 1	0 1 1	0	3.4	2.2	0.0	1 1 1	1 1 1
FEB. MAR. APR. MAY JUNE JULY AUG. SEP. OCT. NOV. 12.1 12.2 12.4 12.4 12.5 12.4 12.5 12.4 12.5					Icic	hthys l	locking	toni					
10.0	i	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
10.0 10.0			-					3.1			1 .	1	
0.0		0.0	ı	1	1 0	0.0	1 1	2.4	1 1		0.0	1 1	1 1
0.0		0.0	1 1	1	2.7	12.1	1	0.0	ı	ı	0.0	1	ı
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		0.0	1 1	1 1	0.0	ທູນ	1 1	0.0	1 1		0.0	1 1	1 1
0.0		0.0	1	1	3,3	ຸທ	1	0.0	ı	ı	0.0	ı	ı
0.0		0.0	1 1	ij	0.0	0.0	1 1	7.1	1 1	1 1	0.0	1 1	1 1
0.0) 	1	. 1	° 1	5.7	1	10.0	1	1		ı	ı
11.4 8.8 1 0.00		0.0	ı	1	1	0.0	1 1	9.0	1 1	1 1	0.0	1 1	1 1
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		0	1 1	1 1	11.4	, &	1	0.0	1	ı	0.0	ı	ı
0.0		0.0	ı	ı	0.0	3.4	ı		ı	ı	0.0	ı	ı
0.0		1 6	1	1	1 1	0.0	1 1	۳. د ۲	1 1		1 0	1 1	1 1
.0) 	1 1	1	1	0.9	ı	0.0	ı	ı		ı	1
0.0		ı	ı	t	ı	ı	ı	3.4	ı	ı	1 0	ı	ı
.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .		0.0	1 -	1 1	e e	1 0	1 1	11.7	i I	1 1		1 1	1 1
.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .		•	1 1	1		2.0	ı	0.0	1	ı	0.0	ı	1
.0		· • I	1	ı	0.0	1 1	1	3.1	ı	1	ı	ı	1
.0		1	ı	ı	1	2.7	1	3.1	1	ı	1 4	ı	ı
.0		0.0	1	ı	2.6	0.0	ı	9.0	ı	ı	0.0	L	1 1
.0 0.0 - 0.0 12.3 - 0.0 - 2.9 0.0 -		ic	ı	1 1	1 4	•	1 1	o ~	1 1	1 1	0	1	1
.0 0.0 - 2.9 0.0 -		000	0,0	1 1	0.0	12.3	1	0.0	ı	1	0.0	ı	ı
.0 0.0 - 3.2 0.0 - 0.0 - 0.0))))	ı	2.9	0.0	ı	0.0	ı	ı	1 4	ı	ı
1 1 0°0 1 0°0 0		0.0	0.0	ı	3.2	0.0	ı	0.0	ı	ı	0.0	1 1	1 1
		1 1	1 1	1 1	1 6	0.0	1 1	, c	1 1	1 1	0,0	ı ı	1

TABLE 4. (cont.)

<u>В</u> ı 1111111 NOV. NOV 111111111 13.8 Ę. 0008 SEP 101111101 SEP SEP ı 0.0 (cont.) JULY 00000000 JULY 0.0 Peprilus simillimus Icichthys lockingtoni JUNE 00000000 Nomeidae 00000000 000000 00 0.0 APR. 000 000000 MAR 100000001 MAR 000000000 EB 1 000011000 JAN. 885.0 660.0 770.0 70.0 33.0 555.0 65.0 665.0 26.0 52.0 STATION STATION STATION 100.0 110.0 113.0 113.0 113.0 117.0 127.0 130.0 80.0

TABLE 4. (cont.)

				7	Peprilus	s simil	limus	(cont.)					
STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
82.0 883.0 883.0 883.0 993.0 110.0 110.0 111.0 111.0 112.0 112.0 112.0 112.0 112.0	255.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00	00000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000 000000000000000000000000000000000	04 000000000000000000000000000000000000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	2.7 2.7 0.00 0.00 0.00 0.00 0.00 0.00 0.	000000000000000000000000000000000000000	B 0 0 00 00	000001000010000004	0000000	000000000000000000000000000000000000000
STATION	7	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
77.0 880.0 880.0 881.0 887.0 991.0 993.0 993.0 993.0 1100.0 1110.0	0.000000000000000000000000000000000000	00 602 0 0 00000		0 000 0 00000		000000000000000000000000000000000000000	17.2	040 00000000000000000000000000000000000	00 000000000000000000000000000000000000	000000000000000000000000000000000000000	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 000000000000000000000000000000000000	00 000000000000000000000000000000000000

TABLE 4. (cont.)

	DEC.	0.
	NOV.	o. o.::::::::::::::::::::::::::::::::::
	OCT.	000 000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	SEP.	
1	AUG.	0.000000000000000000000000000000000000
a	JULY	
lontida	JUNE	
Chiasmodontidae	MAY	000000000000000000000000000000000000000
0	APR.	000000000000000000000000000000000000000
	MAR.	
	FEB.	000000 11000000000000000000000000000000
	JAN.	
	Z	880.00 9
	STATION	93.00

TABLE 4. (cont.)

				Chias	Chiasmodontidae (cont.)	idae (c	ont.)					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
0 00 0 000	0 0	0 0	0.0	0.0	0.0	0.0	0.0	2.2	1	0.0	1	t
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	200	ı	000	, 	1 1
0	0.0	ı	ı	0.0	ı	1 1		•	1 1	000	1	1
133.0 70.0	1 9	1 0	10	10	1 1	0.0	0.0	8.0	0.0	0.0	ı	ı
9		0.1)))		ı)	2.5	0.0	ı	0.0	ı	ı
•	° 1	ı ı	1)))	ı	ι	2.8	1	ı	ı	ı	ı
•	2.9	ı	1	0.0	1	1	ı	0.0	ı	ı	ı	ı
	0.0	ı	1	ı	i	1	ı	e.,	1	1	1 1	1
150.0 50.0	0.0	ŧ	ı	ı	ı	ı	1	1.1	1 1	1	ı	ı
	0.0	ı	ı	ı	ı	ı	1		ı I	1	1	ı
153.0 35.0	2.3	ı	ı	į i	1 1	1 1)	ı	1	1	ı	1
	2.8	ı	ı	ı								
					Uranos	Uranoscopidae						
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0 45.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0		0.0	ı	ı
)			i								
				ъ	Pleuronectiformes	ctitorm	les			1		-
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
!	A 8			0.0	0.0	0.0	0.0	0.0	1	0.0	1 0	1 6
80.0 55.0	0.0	0.0	1 9	0.0	0.0	0.0	3.2	000	0.0	000	0 1	0.1
	4. c	•		000	1 1	0.0	0.0	0.0	0.0	0.0	ı	1
127.0 34.0	4.6	0.0	0.0)	0.0	0.0	0.0	0.0	0.0	0.0	1	1
					Bothus	s spp.						
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	oct.	NOV.	DEC.
137.0 23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	1	1 1
	0.0	ı	ı	0.0	ı	1	1 1	4.4	1 1	1 1	1 1	•
150.0 25.0	0.0	1 1	1 1	1 1	1 1	1 1	1	1.9	ı	ı	1	1
				Ci	Citharichthus spp.	hthus s	oo.					
							A 1111	STI A	CED	5	NOV	DEC.
STATION	JAN.	FEB.	MAR.	APR.	MAY	SUNE	TOOL	AUG.	200	3		
63.0 70.0 73.0 51.0 77.0 50.0	2.8	0.0	111	0.0	000	0.0	0.0 3.0 5.8	0.0	1 1 1	000	111	1 1 1

PABLE 4. (cont.)

Citharichthys spp. (cont.)

0 0 0000 0 00 040 | 4840000010000000000001 | 00000004 0000000 | 1 STATION 77.0 880.0 880.0 880.0 882

TABLE 4. (cont.)

	DEC.	1111111111111111111	DEC.	1111111111111111111111
	NOV.	1,11111111111111111	NOV.	11111111111111111111111
	ocr.	COOCOOO 600 600 1	OCT.	000000000000000000000000000000000000000
	SEP.	15.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	SEP.	100.0 175.6 175.6 175.6 100.0 100.0 100.0 100.0 100.0
	AUG.	3.0 0.0 0.0 0.0 0.0 1.0 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	AUG.	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
cont.)	JULY	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	JULY	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
spp. (JUNE	25.7 25.7 25.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	JUNE	000 000 000 000 000 000 000 000 000 00
Citharichthys spp. (cont.	MAY		MAY	0000000000000001111
Cithari	APR.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	APR.	1 1 2 4 4 4 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	MAR.	000000000000000000000000000000000000000	MAR.	14 71 71 71 71 71 71 71 71 71 71 71 71 71
	FEB.	00000000 000 000 0	FEB.	000 000 000 000 000 000 000 000 000 00
	JAN.	0011400112001000000	JAN.	000000000000000000000000000000000000000
	STATION	123.0 123.0 123.0 123.0 123.0 127.0 127.0 127.0 137.0 130.0 130.0 130.0 133.0 130.0	STATION	100000 25.0 100000 35.0 10000 35.0 10000 35.0 11000 35.0 1113.0 35.0 1117.0 35.0 1117.0 35.0 1117.0 45.0 1117.0 55.0 1117.0 55.0 1118.5 25.0 1118.5 25.0 1118.5 25.0 1118.0 39.0 1118.0 39.0 1118.0 39.0 1118.0 39.0 1118.0 39.0 1118.0 39.0 1118.0 39.0 1118.0 39.0 1118.0 39.0

TABLE 4. (cont.)

	DEC.		DEC.	1	DEC.	1111111
	NOV.		NOV.	1	NOV.	1111111
	OCT.	W40000010K00000000000011	OCT.	1	OCT.	8.0.2.0.0 8.0.0.0.0
	SEP.	2.88. 0.00000000000000000000000000000000	SEP.	ı	SEP.	11111111
•	AUG.	0.0000100000000000000000000000000000000	AUG.	ı	AUG.	11111111
(cont.	JULY	18.8 13.0 2.8 2.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	JULY	- idus	JULY	0000
ragilis	JUNE	4.2 0.0 0.0 0.0 0.0 0.0 14.4 65.1 14.3 10.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	JUNE	ys sord	JUNE	1111111
hthys f.	MAY	35.9	MAY	Citharichthys sordidus	MAX	0000
Citharichthys fragilis	APR.	150.1 35.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	APR.	- Cith	APR.	11110000
C	MAR.	6400000 400000 000000000000000000000	MAR.	ı	MAR.	11111111
	FEB.	2.1 13.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	FEB.	1	FEB.	1111111
	JAN.	000000 000 10000000000000	JAN.	3.0	JAN.	0000
	N.	4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	N.	10.0	Z	20.0 50.0 55.0 60.0 70.0 90.0
	STATION	120.0 120.0	STATION	157.0	STATION	43.0 50.0 573.0 60.0 60.0

TABLE 4. (cont.)

OCT. NOV. DEC.	2.5	2.8	1	1 2	0.0	11	111					0 0 0 0		0 0 0 000	0 0 0 0000	0 0 0 00000	0 0 0 000000	0 0 0 0000000	0 0 0 000000	0 0 0 000000	0 0 0 000000	0 0 0 000000	0 0 0 000000	0 0 0 000000	0 0 0 000000	0.000000000000000000000000000000000000		0 0 0 0000000 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0000000 0 0000000 0 0000000 0 0000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SEP. OCT.	- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.6	0.0			٥.0	0.0		0.0000000000000000000000000000000000000		11111111						000000000000000000000000000000000000000	0.0	••	0.0				00 0000		•	00 0000	00 0000	8 1 1 4 4	000000000000000000000000000000000000000	8 14444	00 0000
1	1		1	1	1	1	1		0.0	0.0	0.00	0 0 0 5	0 0 0 240	0 0 0 4000	0 0 040000	0 0 0400000								o o w40000000000000000000000000000000000		\ \tag{\alpha}	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 %#000000000000000000000000000000000
0.0	0.0	000	0.0	0.0	0.0	0.0	0.0	0.0	4.5	400	200 I	700 l 0 c	♥00 000	#00 0000 n00 0000	*000 0000 m	*00 00000 F00	#00 00000m000	#00 00000H0000	400 000000000000	400 0000000000000000000000000000000000	400 0000000000000000000000000000000000	#00 00000H00000000000000000000000000000	#00 00000H0000000000	400 0000000000000000000000000000000000	naeus	1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	### ##################################	### ##################################	3.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	maeus	maeus	ageus
	1 1	1 1	,	ı	ı	1	1	1 0	0.0	0.00	0.00	00100	000 000	900000000000000000000000000000000000000	000000	0000001	- MO 1 0000000000	360 00000000000000000000000000000000000	900 0000000 000 900 00000000 000	200 00000000000000000000000000000000000	240 1000000000 10000	200 00000000000000000000000000000000000	300 00000000000000000000000000000000000	240 1000000000 1000000000000000000000000	s.t.							
	000	00	4	6.3	2.6	0.0	0.0	0.0		0.0	0.0 2.8	0.00	0.00 8.0	00000	000000	0000000	000000000000000000000000000000000000000	08 000000000	0	0.000000000000000000000000000000000000	0.0000000000000000000000000000000000000	0.0000000000000000000000000000000000000	0.0000000000000000000000000000000000000	08 000000000000000000000000000000000000	0.0 0.0 - 0.0 0.0 0.0 0.0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	2.8 	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	2.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	2.8
	3.0	1 6		0 1	0.0	2.6	0.0	0.0	0	•	0.0	0.00	0000	00000	000000	0000000	000000000	0000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000		000000000000000000000000000000000000000	Cithau	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Cithau	Cithau	Cithau	Cithau	Cithau	Cithal
	1 1	1 1	: 1	ı	ı	ı	ι	1 1	ı	1	1 1	1 1 1	1111	0.	0.00	1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	040000000000000000000000000000000000000	0400010	040001010	0400 0 000	0400 0 0000	11111000010100000	0400 0 000000	0400 0 000000000	0400010100000000	MAR.	MAR.	MAR.	MAR.	MAR.	MAR.	MAR.
	1-1	1 1	ı	1	1	1	0.0	0.0		-	0.0	0.0 6.4 0.0	0.0 0.0 0.0 0.0	0.00 0.00	0.00 0.00	0.00 0.	040 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.40 0.2 E 0 0.20	040012201000000000000000000000000000000	0.00 0.0	0.000 0.000	040 02000000000000000000000000000000000	0.0000000000000000000000000000000000000	0.0000000000000000000000000000000000000	0.0000000000000000000000000000000000000	FEB.	6.0 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1	6.0 6.0 0.0 0.0 0.0 0.0 0.0 0.0	FEB.	HE H	FEB.	FEB.
	0.0	ئ م ا	n c) 	0.0	0.0	2.7	0.0		σ	۳ 8 ا	8.3	8.3 0.0 2.9	8 0 8 0 0 0 0 0 0 0	8 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 10 1 40 40 40 40 10 0	8 0 40 7 9 8 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 1 0 1 4 0 4 6 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 1 0 1 4 0 4 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 0 4 0 4 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 10 1 40 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	8.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	NAN.	AM.	AN.	AN.	8 10 10 10 10 10 10 10 10 10 10 10 10 10	NAN.
	55.0	0.08	55.0	65.0	0.09	0.06	51.0	55.0	90.06	מיני	55.0	55.0 57.0 70.0	55.0 57.0 75.0 47.0	55.0 70.0 75.0 47.0	555.0 57.0 75.0 47.0 48.0	55.0 770.0 770.0 47.0 443.0 40.0	55.0 75.0 75.0 75.0 840.0 255.0 28.0	855.0 775.0 775.0 775.0 775.0 85.0 85.0	20000000000000000000000000000000000000	20000000000000000000000000000000000000	555 50 50 50 50 50 50 50 50 50 50 50 50	0.00.00.00.00.00.00.00.00.00.00.00.00.0	80000000000000000000000000000000000000	20000000000000000000000000000000000000	0.000000000000000000000000000000000000	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N	28888888888888888888888888888888888888
STATION	63.0	63.0	62.0	67.0	70.0	70.0	73.0	77.0	77.0	0 08	80.0	0.000	80.0 80.0 80.0	88888888888888888888888888888888888888	88888888888888888888888888888888888888	80.0 80.0 80.0 82.0 83.0 87.0	880.0 882.0 883.0 87.0 90.0	880.0 880.0 882.0 883.0 87.0 90.0	880.0 880.0 882.0 883.0 887.0 990.0	80.0 80.0 80.0 82.0 83.0 87.0 87.0 90.0 100.0	80.0 80.0 80.0 80.0 82.0 83.0 87.0 87.0 90.0 100.0	880.0 880.0 880.0 883.0 883.0 87.0 90.0 100.0	880.0 880.0 882.0 882.0 883.0 90.0 1000.0 1100.0	80.0 80.0 80.0 80.0 82.0 83.0 87.0 90.0 100.0 110.0 113.0	80.0 80.0 80.0 80.0 80.0 80.0 90.0 100.0 100.0 1110.0 1110.0	80.0 80.0 80.0 82.0 83.0 83.0 87.0 90.0 100.0 110.0 110.0 113.0	80.0 80.0 80.0 83.0 83.0 83.0 83.0 90.0 90.0 100.0 110.0 1110.0 1110.0 1110.0 1110.0 1110.0 1110.0 1110.0 1110.0 1110.0	80.0 80.0 80.0 82.0 83.0 83.0 87.0 90.0 100.0 110.0 110.0 1113.0 123.0	80.0 80.0 80.0 82.0 83.0 83.0 87.0 90.0 100.0 110.0 110.0 113.0 123.0	80.0 880.0 880.0 883.0 883.0 887.0 877.0 90.0 1000.0 1100.0 1110.0 113.0 123.0 53.0 63.0	80.0 80.0 80.0 80.0 83.0 83.0 87.0 90.0 100.0 110.0 110.0 1113.0 123.0 87.0 87.0 87.0 110.0 110.0 1113.0 123.0	80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0

	DEC.	ł	ı	ı	H	. 1	0.0	3.0	0.0	ı	1 1	٠ • •)))	0.0	ı	ı	1 0	2.5		0.0	0.0	ı	1	ł	۱ ۱	0.0	0.0	0.0	1 (v c		0.0	0.0	ı	1 4	0.0	0.0	0.0	0.0
	NOV.	F	ı	ı	1 1	. 1	2.3	0.0	0.0	ı	1 (0.0	7.0		0.0	ı	ı	1 0	0.0		0.0	0.0	1	ı	ı	1 1	2.5	0.0	0.0	1 0	0.0	0	0	0.0	i	1 4	0.0	2.5	0.0	0.0
	ocT.	0.0	0.0	1 '	4. c	3.6	i)	2.0	0.0	1	0.0	1 0	•		0.0	1	0.0	1 0	9.0	•	0.0	0.0	1	1.5	1 (8.0	7.7	2.3	0.0	2.9	4. c	•	0	0.0	ł	1	6,0	0.0	2.8	0.0
	SEP.	ı	ı	ı	1	1 1	ı	1	ı	ı	ı	1	1 1	ı	ı	ı	ı	ı	1	1 1	1	ı	ı	ı	1	1 1		ı	1	1	0.0	•	9	0.0	2.9	1	0.0	0.0	0.0	0.0
(::	AUG.	1	1	ı	1	0)))	6.4	2.5	ı	0.0	1 0	8.70		5.0	10.1	0.9	0.0	0.0	7.0	000	0.0	3.0	0.0	1 4	4.0	10	0.0	0.0	3.2	1.0		000	0.0	0.0	1	5.0	0.0	0.0	0.0
(cont.)	JULY	0.0	0.0	0.0	0.0		• 1	3.4	8.9	9.5	0.0	10	3.5 5.7		0.0	0.0	0.0	3.1	0.0	•	10.3	0.0	0.0	0.0	6.7	0.0	200	0.0	3.0	0.0	6.0	000	000	0.0	3.2	ı	ლ ი	000	2.5	0.0
Citharichthys stigmaeus	JUNE	1	ı	ı	ı	c 1 c)))	0.0	0.0	0.0	2.7	1 0	n c		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0		0.0	0.0	0.0	2.5	•	0.0	2.0	2.8	ı	0.0	0.0	0.0	000
thys st	MAY	0.0	0.0	0.0	0.0	•	٥١	ı	2.8	0.0	0.0	1 0	000	•	0.0	0.0	0.0	0.0	0.0	000		3.0	0.0	0.0	0.0	000		0	0.0	0.0	0.0		000	0	0.0	1	0.0	0.0	2.7	0.0
harich	APR.	0.0	0.0	2.9	0.0)))	0.0	2.9	1	5.6	1 (0.0	•	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	, c	•	0.0	1	1	0.0	000	2.8	0.0 2.8
Cit	MAR.		ı	ı	ı	1 1		i	ı	ı	ı	ı	1 4	1	1	ı	ı	ı	1 1	5.4	1	1	ı	ı	i	ŧ	c 1 C	0.0	ı	ı	0.0	1 0	2.0	0.0	0.0	ı	0.0	0.0	0.0	3,4
	FEB.	3.6	3.1	ı	0.0	1 0			0.0	1	ŀ	3.1	2.0		0.0		3.1	ı	0.0	2.9	0.0	0.0	1	0.0	1 4	0"0	9.6	0.0	0.0	0.0	0.0	0.0	•	0.0	1	ı	0.0	00	0.0	0.0
	JAN.	0.0	2.8	ı	0.0	1 0	0.0	0.0	0.0	1	4.8	1	0.0	0 • 7	0.0	1	0.0	ı	0.0	0.0	000	0.0	1	0.0	1 4	0.0	0.0	30	1	ı	2.9	0.0		· • I	1	2.8	1 0	000	0.0	0.0
	Z	51.0	55.0	65.0	70.0	90.0	53.0	55.0	0.09	85.0	52.0	53.0	55.0	0.00	70.0	75.0	80.0	85.0	47.0	43.0	55.0	0.09	65.0	70.0	75.0	80.0	36.0	40.0	60.09	70.0	28.0	32.0	3/.0	60.0	65.0	27.0	28.0	35.0	40.0	55.0 65.0
	STATION	73.0	73.0	73.0	73.0	73.0	77.0	77.0	77.0	77.0	80.0	80.0	80.0	0.00	80.0	80.0	80.0	80.0	82.0	83.0	200	83.0	83.0	83.0	83.0	83.0	83.0	87.0	87.0	87.0	90.0	0.06	000	0.06	0.06	93.0	93.0	93.0	93.0	93.0 93.0

TABLE 4. (cont.)

	DEC.			DEC.	w.10000111111111111
	NOV.		1	NOV.	0.0000000000000000000000000000000000000
	OCT.	000000000000000000000000000000000000000		OCT.	0.0000000000000000000000000000000000000
	SEP.	00 0000		SEP.	111000011111111111111111111111111111111
•	AUG.	00000000000000000000000000000000000000		AUG.	0.0000000000000000000000000000000000000
(cont.	JULY	00000000000000000000000000000000000000	xanthostigma	JULY	000000000000000000000000000000000000000
Citharichthys stigmaeus	JUNE	2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		JUNE	000000000000000000000000000000000000000
thys st	MAY	000,0000	citharichthys	MAY	000000000000000000000000000000000000000
tharich	APR.	100000000000000000000000000000000000000	Cithar	APR.	0,0000000000000000000000000000000000000
ci	MAR.	000000000000000000000000000000000000000		MAR.	7.0000000000000000000000000000000000000
	FEB.	000000000000000000000000000000000000000		FEB.	0 0000000000000000000000000000000000000
	JAN.	000000010000000000000000000000000000000		JAN.	00001100000000000
	Z	0.000000000000000000000000000000000000		Z	55.0 55.0 55.0 55.0 55.0 55.0 55.0 55.0
	STATION	97.0 97.0 97.0 97.0 1000.0 1000.0 1003.0 1003.0 1007.0 1113.0 1113.0 1118.0 1120.0 123.0		STATION	80.00 87.00 90.00 90.00 93.00 100.00 100.00 100.00 110.00 110.00

TABLE 4. (cont.)

DEC.		1 1 1
NOV.		111
OCT.	00000 1210 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0	0.0 2.9 0.0
SEP.	231.3 231.3 231.3 231.3 231.3 251.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26	0.0
AUG.	00000 1 0000000000 1 0000000000 1 00000000	0.0
JULY	10000 1000000000 1000000000000000	000
JUNE	00000 1000000000 100407000000000000000000000000000000000	10.7 0.0 0.0
AR. APR. MAY JUNE JULY AU	000001100000000000000000000000000000000	000
APR.	0.000 0.000 1.04 1.04 1.000	0000
MAR.	00000 1 2000000 1 20 1 1 0 20000 1 20000 1 1 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00
FEB.	008401100440001101100000000000000000000	0.00
JAN.	00 00 0000080 00 0000000000 00000000000	000
z	0.000000000000000000000000000000000000	25.0 30.0
STATION	100.0000000000000000000000000000000000	133.0 133.0 133.0

TABLE 4. (cont.)

	DEC.	11111111		DEC.	1111	1111		Cac	DEC.	00
	NOV.	11411111		NOV.	11111	1 1 1 1	111111	L CA	NOV.	00
	ocr.	000001111		OCT.	00000	15.4 0.0 2.9	200 0.0 0.0 0.0		3	0.000.000000000000000000000000000000000
	SEP.	00		SEP.	00000	5.7	9. 7. 0. 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		SEP.	0 000001
(cont.)	AUG.	00.00 00.00 00.00 00.00 00.00		AUG.	#0000	0000	0.0 0.0 0.0 1.7		AUG.	000000000000000000000000000000000000000
	JULY	00000		JULY	10.0 5.4.4 0.0	0000	00000	nata	JULY	0000 100000
hostig	JUNE	00000	s spp.	JUNE	0.00	0.000	8,0000	na ston	JUNE	000000000000000000000000000000000000000
ıys xanı	MAY	0 000	Etropus	MAY	0.0	0000	0000011	Hippoglossina stomata	MAY	2.000000111 4.8000000
Citharichthys xanthostigma	APR.	000440000		APR.	0.00	0.0	000000	Нірр	APR.	000000000000000000000000000000000000000
Cith	MAR.	96000 1111		MAR.	00000	0000	0000011		MAR.	7000000000
	FEB.	000000000000000000000000000000000000000		FEB.	00000	0000	0000011		FEB.	0000000000
	JAN.	000000000000000000000000000000000000000		JAN.	00000	0.00	7.040 0.00 0.00 0.00		JAN.	0000000000
	Z	0.000 0.000 0.000 0.000 0.000 0.000		Z	39.0 30.0 37.0	34.0 30.0 65.0	30.0 30.0 30.0 30.0	1	Z	51.0 235.0 300.0 226.0 253.0 255.0
	STATION	133.0 134.0 137.0 137.0 137.0 140.0 143.0	1	STATION	118.0 120.0 120.0 123.0	127.0 130.0 133.0	133.0 133.0 137.0 137.0 140.0		STATION	83.0 100.0 100.0 113.0 117.0 117.0 119.0 120.0

TABLE 4. (cont.)

	DEC.		1-1	DEC.	000000001111111111111111111111111111111
	NOV.	11111111111	1 1	NOV.	000000000000000000000000000000000000000
	OCT.	40000000400	10.1	OCT.	000000000000000000000000000000000000000
	SEP.	0.01 0.0 0.00 0.0 0.00 0.0 0.00 0.0	4.0 0.0	SEP.	1111100011111100000000000000
•	AUG.	000000000000000000000000000000000000000	0.0	AUG.	
(cont.	JULY	000000000000000000000000000000000000000	0.0 0.0 nicus	JOLY	00000000000000000000000000000000000000
stomata	JUNE	00000000000	0.0 0.0 0.0 0.0 californicus	JUNE	400000000000000000000000000000000000000
	MAY	0000000000	Ŋ	MAY	000000000000000000000000000000000000000
Hippoglossina	APR.	000 000	0.0 5.5 Parali	APR.	000000000000000000000000000000000000000
H	MAR.	00000 00000	00	MAR.	100000000000000000000000000000000000000
	FEB.	00000 00000	0.0	FEB.	080000000400000000000000000000000000000
	JAN.	000000000000000000000000000000000000000	0.0	JAN.	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	N	35.0 427.0 720.0 70.0 70.0 34.0 35.0	30.0	Z	800 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	STATION	12000 12000 12300 12300 12300 12700 13300 13300	137.0	STATION	882.0 883.0 883.0 990.0 900.0

TABLE 4. (cont.)

	DEC.	1111111		DEC.	000111		DEC.	111111		DEC.	
	NOV.	111111		NOV.	0.0		NOV.	111111		NOV.	
	OCT.	0.		ocT.	00000		OCT.	000000		OCT.	00 0000000
	SEP.	4.		SEP.	2.6 0.0		SEP.	111111	i 1 1 1	SEP.	
	AUG.	0.0 1.3 3.0 2.2 7.9		AUG.	0.0000		AUG.	0.0		AUG.	
	JULY	0	is	JULY	00000	irus	JULY	00.0000		JULY	0000000000
ovale	JUNE	0 1 1 1 1 1 1 1	liolepis	JUNE	00000	us zach	JUNE	2,0	exilis	JUNE	
Syacium ovale	MAX	0.	Xystreurys	MAY	00000	Glyptocephalus zachirus	MAY	0.0188	Lyopsetta exilis	MAY	28.34 12.2 0.0 0.0 0.0 0.0 0.0 3.4 0.0
0,	APR.	00000111	Xyst	APR.	0.00	Glyptc	APR.	9.0000000000000000000000000000000000000	Ly	APR.	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	MAR.	0.0111111		MAR.	0.00		MAR.	11111		MAR.	1 1 1 1 1 1 1 1 1 1 1 1
	FEB.	0.0		FEB.	0.0000000000000000000000000000000000000		FEB.			FEB.	1111111111
	JAN.	00000000		JAN.	00000		JAN.	000000		JAN.	00 0000000
	-	23.0 26.0 20.0 25.0 19.0 25.0		-	55.0 37.0 34.0			52.0 52.0 52.0 52.0 55.0 75.0		-	800.00 55.00 55.00 55.00 55.00 55.00
	STATION	137.0 143.0 147.0 147.0 150.0 153.0		STATION	80.0 83.0 123.0 127.0		STATION	60.0 63.0 63.0 70.0 80.0		STATION	60.0 60.0 60.0 60.0 63.0 67.0 67.0

TABLE 4. (cont.)

	DEC.	11100	0.0110	00000		0011111	DBC.	0.0
	NOV.	11100	0 0 0	00000	0000	0011111	NOV.	0.0
	OCT.	0 000	00100	00000	000000	000000	OCT.	00 00 0 0000
	SEP.	11111	1111	11111	000000	00 00	SEP.	
	AUG.	0.00	00 00	00000	000000	000000	AUG.	3.5
(cont.)	JULY	0 000	00 100	00000	0000100	0000100	icus	008000000000000000000000000000000000000
	JUNE	1 1000	*00 00	00070	000000	000000	pacificus	3.00
Lyopsetta exilis	MAY	0 000	00.000	000000	www.ooo	0000000	Microstomus PR. MAY	2 2 2 2 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Lyopse	APR.	0 0 0 0 0	0 1 3 2 6	00000	0.0000	7800000	Micr APR.	90 000 00000
	MAR.	1111	1) 1	10.9 8.8 0.0	0.00	000000	MAR.	111111111111
	FEB.	22.00	0.400	0000		000000	FEB.	1111111100101
	JAN.	0.000	000100	0000	000000	000000	JAN.	00 00 0 00 0
	N	53.0 50.0 60.0				20.0 30.0 30.0 30.0	N.	2000 2000 2000 2000 2000 2000 2000 200
	STATION	73.0	880.000	83.0 83.0 87.0 87.0	0.00000	933.0 1000.0 1003.0 117.0	STATION	60.0 67.0 70.0 70.0 70.0 73.0 73.0

TABLE 4. (cont.)

				Mi	crosto	Microstomus pacificus	ificus	(cont.	•				
STATION	.,	JAN.	FEB.	MAR.	APR.	MAX	JUNE	אחני	AUG.	SEP.	OCT.	NOV.	DEC.
77.0 80.0 77.0 85.0 77.0 90.0 83.0 60.0 83.0 65.0 83.0 70.0	000000	0.00	0.00	1111111	0 00000	800000 K	0.4.0.6.0	0005000	0000	111111	0 00 00	0.	1110111
					Fa	Parophrys Vetulus	Vetuti	15					
STATION	. ,	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 52		47.3			5.4	0.0		0.0	1 1	1 1	0.0	1 1	1 1
))))	1	ı		6.3	1	0.0	ı	1	1	ı	ı
	0.	1 6	ı	ı	10	3.0	ı	0.0	1	1	0.0	ı	ı
	٥.	8.0	٦ -	1 1	0.0	0		000	li	1 1	0.0	1 1	ı
		0.0		1	0.0	0.0	0.0	4.6	0.0	ı	0.0	1 9	1 9
	0.0	0.0	0.0	10	o c	0.0	0.0	000	0.0	1 1	000	000	000
	. 0	0.0	0.0	8.8	0.0	2.5	0.0	0.0	0.0	ı	0.0	0.0	0.0
	0.	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1 4	0.0	0.0	0.0
	0.0	0.0	m 0	0.0	0.00	2.7	2.5	3.1	000	000	0.0	00.0	0.0
	0.	0.0	0.0	0.0	10	7.1	0.0	4. c	0.0	1	0.0	ı	ı
	٥٠	0.0	0.0	0.0	00	000		2.6	0.0	1 1			1 1
. 0	0.	0.0	0.0	2.6	5.6	0.0	0.0	0.0	0.0	1	0.0	ı	ı
	0.0	0.0	0.0	0.0	69.0	2.5	0.0	000	0.0	0.0	000	1 1	1 1
110.0 45.0 113.0 35.0	000	000	000	0.0	2.4	000	000	000	000	0.0	000	11,	1-1
					P16	Pleuronichthys spp.	hthys s	pp.					
STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0 35.0 117.0 30.0 118.0 39.0 119.0 33.0	00000	00000	00000	0.000	00000	0000	0.00.10	00000	00000	0000	00000	0.01111	0.0
		000	000	2.7	0.0	000	000	000	200	000	000	1 1	1-1

TABLE 4. (cont.)

				Pleur	Pleuronichthys coenosus	ins coer	snsou					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JOLY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0 43.0 87.0 55.0 87.0 70.0 90.0 50.0	0.0	0.00	0.0	0.00	0000	2.83	3.2	0000	0.0	0000	0.0	0.00
				Pleur	Pleuronichthys decurrens	ys decu	rrens					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	ocr.	NOV.	DEC.
60.0 90.0 63.0 90.0 70.0 80.0 70.0 85.0	0000	1111	1111	0.0	0.0 2.9 3.4	1111	0000	1 1 1 1	1111	0000	1111	1111
				Pleu	Pleuronichthys ritteri	hys rit	teri					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0 28.0 120.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0
				Pleuro	Pleuronichthys	s vert	verticalis					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
77.0 55.0 90.0 28.0 93.0 50.0	0.00	0000	000	0.00	000	0000	0.00	0.00	0.0	0000	0000	0000
	0.0	2.6	0.0	3.2	000	0.0	0.0	3.3	0.0	0.0	1 1	1 1
				Psetti	Psettichthys melanostictus	nelanos	tictus					
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0 60.0 87.0 40.0 87.0 50.0	000	0.0	0.0	3.0	3.0	0.0	0.00	0.0	1 1 1	000	000	0.00
					Symphurus spp	dds sn						
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	ocT.	NOV.	DEC.
77.0 50.0	0.0	0.0	1 1	0.0	0.0	0.0	2.8	0.0	1.1	0.0	2.6	0.0

				Symp	hurus	Symphurus spp. (cont.	ont.)				
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JOLY	AUG.	SEP.	OCT.	NO
8830 8800 8800							w4v000000w10v011000000100001110000000000	0.000000000000000000000000000000000000		0004478478486000000000000000000000000000	
	0.0	0.0			00	0.0	000	1.1			1 1

TABLE 4. (cont.)

	DEC.		ı	ı	ı	ı	ı	ı	i	1	ı	1	1	ı		DEC.		ł	1	1	ı	ı	ı	ı	ı	ı	ı	1 1	ı	10		0.0	1	1	2.8	1	0.0	0.0	1	ı	1.9	0.0	
	NOV.		1	1	1	ı	ı	ı	ı	ı	ı	ı	ı	ı		NOV.		1	ı	1	ı	ı	ı	ı	ı	ı	ı	1	ı	1 0	• 1	0.0	1	1	0.0	1	0.0	0.0	1	ı	1 4	000	
	OCT.	0	0.0	25.9	17.6	0.0	0		ı	ı	1	ı	ı	ı		ocr.	2.0	1	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0		• 1	0.0)	0.0	1	1	0.0	0.0	0.0	i	1 4	0.0	
	SEP.		0.0	17.4	0.0	1	ı	ı	ı	ı	1	1	ı	ı		SEP.		1	ł	1	ı	ı	ı	ı	1	i	ı	1 1	ı	1 1	1	ı	ı	ı	ı	i	ı	ı	ı	ı	ł	1-1	
	AUG.	2.2	1.5	0.0	1	9.8	1.7	8	 0.0	1.6			8.5			AUG.		1	i	1	ı	ı	1	ı	ı	1	ı	1 1	1 4	•	•	0.0)	ı	ı	1	0.0	0.0	2.3	1	1	0.0	
nt.)	JULY	0 0	0.0	0.0	0.0	0.0	0.0	0.0	ı	ı	ı	ı	ı	t	larva	JULY		2.8	2.5	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0		1	0.0	0.0	0.0	1	1	0.0	
Symphurus spp. (cont.)	JUNE	0	0.0	0.0	0.0	0.0	0.0	0	ı	ı	ı	1	ı	ı	d fish	JUNE		ı	ı	1	ı	ı	ı	ı	ı	ı	ı	ı	1 9	0.6		3.2	1	14.7	ı	1	0.0	0.0	0.0	ı	1	0.0	
hurus s	MAY	0 0	0 1	0.0	0.0	0.0	0	0	ı	ı	ı	1	1	ı	Disintegrated	MAY	,	1	0.0	0.0	ı	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1	2.8	3.0	0.0		ı	0.0	0.0	0.0	2.9	3.1	0.0	
Symp	APR.	0	0.0		0.0	0.0	0		٠	0.0	0.0	0.0	ı	ı	Disin	APR.	ı	1	0.0	0.0	0.0	3.5	0.0	5.6	0.0	0.0	0.0	2.0	Z . Z	0.6		2.9	1	0.0	,	ı	3.2	0.0	0.0	ı	1	m 0 m 0	
	MAR.	0	0.0	0.0	0.0	0.0	0.0	0	ł	ı	ı	1	ı	ı		MAR.		ı	i	ı	ı	ı	ı	1	1	ı	ı	L	1	1 1	ı	1	ı	1	ı	1	ı	1	ı	ı	ı	0.0	
	FEB.	0	0.0	0.0	0.0	0.0	0	0	1	ı	i	1	ı	i		FEB.		1	ı	1	ı	ı	ı	1	3.6		0.0	0.0	1 5	16.0	2.6	0.0))) 	1	108.5	6.4		0.0	3.1	ı	1	0.0	
	JAN.	0	0	0.0	0.0	0.0	0		0.0	0.0	2.6	0.0	0.0	0.0		JAN.		1	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1 9		•	0.0)	1	1	ı	7	2.4	0.0	ı	1	0.0	
	Z	40.0	36.0	23.0	30.0	40.0	45.0	50.05	 35.0	50.0	35.0	50.0	16.0	25.0		Z	42.0	85.0	0.06	55.0	0.06	55.0	0.09	0.06	51.0	55.0	60.0	0.00	20.0	50.0	77.0	0.09	75.0	80.0	53.0	57.0	0.09	70.0	0.06	100.0	110.0	47.0	
	STATION	133 0	134.0	137.0	137.0	137.0	137 0	137.0	 140.0	140.0	143.0	143.0	153.0	153.0		STATION		50.0		0																						82.0 83.0	

Disintegrated fish larva (cont.)

OCT. NOV. DEC.	3.0 0.0 0.0 0.0 0.0 0.0 0.0
	0.0 - 0.0
3.0 0.0 3.0 0.0 2.6 0.0	- 0.0 0.0
000000	0.0
00000	0.0
0.0	0.0
0	35.2
	8.2 3
	25.7
	6.2 8.5 22.1 24.9
-	0000
- 1	
	43.0 51.0 55.0

FABLE 4. (cont.)

Disintegrated fish larva (cont.)

DEC. NOV Ö 000 408560 STATION

DEC. NOV S SEP Disintegrated fish larva (cont.) 000004000000400000 FEB. STATION

TABLE 4. (cont.)

Ş 0.00 S E SEP Disintegrated fish larva (cont.) STATION

TABLE 4. (cont.)

	NOV. DEC.	1	1		1	1		NOV. DEC.	1	1	1	1 1	1	1	1 1	0.0	0.0	1	0.0 0.0	1	1 1		0.0	0.0		0.0	0.0			0.0	0.0		0.0		0.0 0.0	
	OCT. N	ι	1	1	1	ı		OCT. N	-	0.0	0.0	ວ. ຕ	0.0)))	0.0	1 0	0.0	0.0	0.0	t	ı	1 0	0.0	0.0	0.0	9.0	0.0	4.5	0.0	0.0	1	1 0	2.9)	2.8	
	SEP.	ł	ı	!	ı	ı		SEP.	1	1	1	1 1	1	ı	I	ı	1 1	1	ı	ı	ı	ı	1 1	ı	ı	ı	1 1	0.0	0.0	0.0	0.0	1 4	00	2.7	0.0	,
·:	AUG.	ı	ı	ı	ı	1		AUG.	1	1	ı	ı ı	1	ı	0.0	1 (0.0	-	0.0	0.0	3°3	1 9	000	3.1	0.0	0.0	•	0.0	0.0	0.0	ı	1	0.0	0.0	0.0	
a (cont	JULY		ı	ı	ı	ı	larva	JOLY	5.7	0.0	0.0	0.0	90		0.0	1 1	0.0	2.0	00.0	0.0	0.0	1 0	7.0	0.0	0.0	0.0	,,	2.9	0.0	0.0		1 (0.0	2.7	0.0	
sh larv	JUNE	1	i	ı	ı	1	fish larva	JUNE		ı	ı	ı	۱ ۱	1	0.0	1 4	0.0	0.0	0.0	2.9	0.0	1 4	000	0.0	0.0	0.0	•	0.0	0.0	2.9	ı	1 4	0.0	0	0.0	
ated fi	MAY		ı	1	i	ı	Unidentified	MAY	0.0	0.0	0.0	0.0	•		0.0	ı	800	•	000	0.0	0.0	2.9	000	000	0.0	0.0	×.		0.0	0.0	2.8	2.8	0.0	0	0.0	
Disintegrated fish larva (cont.)	APR.		ı	ı	ı	ı	Unide	APR.		5.4	2.8	0.0	c 1 C	٥٥	0.0	ı	0.0	1 0	0.0	0.0	0.0	1	0.0	0.0	3.5	0.0	0.0		2.6	0.0	í	1	0.0		0.0	
Dis	MAR.		ı	ı	ı	ı		MAR.		1	1	ı		1 1	1	1	ı	1 1	1 1	ľ	t	ı	1 0	0 1	1	0.0	0.0))))	0.0	ı	ı	0.0	7.70	0.0	
	FEB.		1	1	1	ı		FEB.		ı	ı	ı	1 0	0.1	2.6	3.2	0.0	ı	12.4	* • !	ı	ı	0.0	0.5	0.0	0.0	0.0	00	0.0	1.5	ı	ı	0.0	0.1	0.0	
	JAN.	2.7	2.0	6.4	2.4	1.8		JAN.		0.0	0.0	0.0	0.0	0.0	0.0))))	0.0	1 6	4.0) 	ı	ı	യാ	0.0	0.0	0.0	0.0		0.0	1	ı	ı	1 0	0.1	0.0	
	2	45.0	80.0	15.0	55.0	70.0		z	75.0	80.0	90.0	50.0	70.0	21.0	50.0	53.0	0.09	85.0	55.0	75.0	85.0	120.0	47.0	510.0	0.06	35.0	40.0	0.00	32.0	80.0	100.0	130.0	28.0	75.0	80.0	
	STATION	15.2	153.0	157.0	157.0	157.0		STATION	1	0.09		0	_	_	77.0					80.0													93.0			

TABLE 4. (cont.)

Unidentified fish larva (cont.)

	DEC.	1	ı	ı	ı	ı	1	1	ı	ı	ı	ı	ı	ı	1		1	ı	ı	1	1	1	ı	ı	ı	ı	t	1 1	ı ı	1	ı	ı	1	ı	ı	1		1	1	1	ı	1 1	1	
	NOV.		1	ı	1	ı	ı	1	ı	ı	ı	ı	ı	i	1 1		1	ı	ı	ı	1	1	ı	ı	ı	1	ı	1 1	1	1	1	1	ı	ı	ı	Į	ı	1 1	ı	1	ı	1 1	1 1	
	ocr.	0.0	0.0	2.9	ı	0.0	ı	0.0	0.0	3.0	0.0	0.0	1 (0.0	•	•	0.1	0		0.0	0.0	0.0	6.1	ı	1	0.0	0.0)	0.0	ı	0.0		0.0	0.0	•	•	0.0	0.0	0.0	000)
	SEP.		1	1	ı	1	ı	ı	1	ı	ı	ı	ı	ı	, ,	1	1 1	ı	ı	1	1	ı	ı	i	ı	ı	1 4	0.0	• 1	ı	ı	ı	1	0.0	0.0	ı	ı	H	ı	2.7	0.0	2.8	T. 0	
,	AUG.	0.0	2.9	0.0	0.0	3.2	9.1	3.0	5.9	14.6	0.0	0.0	6.3	2.8	0.0	,,	200	,,		2.9	0.0		0.0	3.2	3.0	0.0	0.0	2.5	٥.		3.2	0.0	3.2	0.0	0.0	0.0	0.0	n c) 	0.0	0.0	0.0	200	•
ורסוורי	JULY	0.0	0.0	3,1	8.6	0.0	0.0	0.0	0.0	36.4	0.0	0.0	0.0	ı	1 0		•	000			0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	•		0.0	5.5	2.7	1 0	0.0	0.0	0.0	ر در د در	2.5	0.0	5.1	0.0	•	,
יוו דמד ויי	JUNE	3.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	m m	5.2		0.0	0.0		, c			0.0	0.0	0.0	0.0	0.0	0.0	9.0			2.5	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0		7.9	0.0	•	•
וכר ד דטו	MAY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		•			0.0	0.0	0.0	0.0	0.0	3.2	0.0	7.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	•
חוזמבוורדדדבמ	APR.	0.0	2.9	0.0	0.0	0.0	2.9	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	•		9 0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.5	0.0	0.0	0.0	•
	MAR.	0.0	0		ı	ı	ı	1	0.0	0.0	0.0	0.0	ı	2.5	0.0	0.0	0.0	1 6	9 1	0		0.0	0.0	0.0	1	0.0	1	0.0	0.0	•	0.0		0.0	0.0	2.7	0.0	0.0	0,0) 	0.0	8.5	0.0	0.0	•
	FEB.	0.0		0.0		0.0		0.0	0.0	0.0	2.3	0.0	ı	0.0	2.3	0.0	0.0	1	1 1	-			0.0	1.9	ı	ı	ı	0.0	0.0		0.0		0.0	0.0	0.0	0.0	2.9	0.0) - 	0.0	5.2	0.0	0.0	•
	JAN.	0		0.0)	0.0	1	0.0	0.0	0.0	١	0.0	1	0.0	0.0	0.0	2.9	1 0					0.0	0.0	1	0.0	0.0	0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0	2.1		0.0	0.0	0.0	0.0	•
	7.	32 0	35.0	70.0	75.0	80.0	85.0	0.06	29.0	30.0	55.0	0.09	85.0	30.0	35.0	60.0	70.0	0.07	0.00	33.0	35.0	45.0	50.0	55.0	75.0	80.0	0.06	33.0	35.0	65.0	70.0	75.0	80.0	30.0	35.0	45.0	50.0	55.0	0.00	26.0	30.0	35.0	40.0	0.0
	STATION	0.7.0	0.70	0.79	97.0	97.0	97.0	97.0	100.0	100.0	100.0	100.0	100.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	110.0	0.011	110.0	110.0	110.0	110.0	113.0	113.0	113.0	113.0	113.0	113.0	117.0	7	117.0	117.0	0.111

TABLE 4. (cont.)

Unidentified fish larva (cont.)

DEC. NOV S SEP 000000 4000wwww0000004400000111487800400004444000w00 0000000 -00000000 E STATION

TABLE 4. (cont.)

				Un	identi	Unidentified fish larva (cont.)	sh larva	a (cont	•				
STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
000								0	0	,	5.7	1	
130.0	20.00	9	0	0	0	0				2.8	2.9	ı	1
122.0	30.0	•	•				0	0.0	0.0	2.6	0.0	1	1
133.0	35.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	ı	8.5	ı	ı
133.0	55.0	0.0			0.0	1	ı	0.0	0.8	1	0.0	1	1
133.0	70.0	1	ı	ı	ı	ı	ı	0.0	9.0		0.0	ı	ı
134.0	36.0	0.0	0.0	0.0	0.0	1	0.0	0.0		0.0	2.7	ı	ı
137.0	23.0	0.0	5.5	0.0	0.0	0.0	0.0	2.5	3.7	6.5	0.0	ı	ı
137.0	30.0	0	2.7	6.8	0.0	0.0	0.0	0.0			0.0	ı	ı
137.0	40.0	0.0	0	0.0	0.0	0.0	0.0	0.0	11.6	ı	0.0	ı	ı
137.0	45.0	0.0	23.5	3.0	0.0	0.0	0.0	0.0	12.6	ı	0.0	1	ŧ
127	0.0				2 7	0	0	0	0.0	1	0.0	1	ı
137.0	ייני פיני		. 1)))	0	0.0	1	0.0	I	ı
140	0.00		1		, c	,	ı) 		ı	1	ı	1
140.0	0.00			ı	, ,	1	!	1		ı	1	ı	1
140.0	0.00	0.0	ı	ı	•	I	1 :	İ		1		ı	
140.0	40.0	0.0	ı	ı	0.0	ı	ı	ı		ı	ı	li	
140.0	45.0	0.0	ı	1	0.0	ı	ł	ı	, i	1		ı	I
140.0	50.0		ı	ı	0.0	ı	ı	ı	9.0	1	ı	1	ı
140.0	0.09	0.0	ı	ı	0.0	ı	ı	1	2.3	I	ı	1	ı
143.0	26.0	-	i	1	0.0	ı	ı	ł	44.2	ı	ı	ı	ı
143.0	30.0		ı	1	0.0	ı	ı	1	2.7	ı	ı	1	ı
143.0	45.0	0.0	ı	1	2.6	t	ı	ı	1.7	ı	i	1	ı
143.0	0.09		ı	1	0	1	ı	ł	0.0	ı	1	ı	1
143.0	20.02	•	ı	1)	1	1	ı	5.4	ı	ı	1	,
147.0	20.00	6.3	ı	ı	0.0	1	ı	1	0.0	1	1	ı	ı
147.0	25.0		1	ł	, co	ı	1	ı		1	ı	1	1
147.0	30.0	, r	ı	ı		1	ı	ı	0.0	ı	ı	1	ı
147.0	35.0		ı	1		ı	ı	ı	5.5	1	1	ł	ı
147.0	20.0	•	1	1		1	1	ı	2.5	1	ı	1	ı
147.0			ı	ı	7	1	ı	ı		1	1	ı	1
147.0	הייני	0.4	ı	ı	0	ı	ı	1	0.0	ı	1	1	ı
147.0	0.09		ı	ı	0	1	ı	1	1.0	ı	1	1	ı
150.0	0.61		1	ı)))	1	ı	ı	18.5	ı	ı	1	1
150.0	25.0	0.0	1	1	ı	ı	ı	ı	1.9	1	ı	1	ı
150.0	30.0	0.0	ı	1	ı	i	1	ı	1.5	ı	ı	ı	!
150.0	35.0	0.0	ı	ı	1	ı	1	1	10.2	!	ı	ı	1
150.0	40.0	0.0	ı	ı	ı	1	1	ı	3.1	ı	ı	ı	ı
150.0	45.0	0.0	ı	1	ı	ı	1	ı	8.0	1	ı	ı	ı
150.0	50.0	0.0	ı	ı	ı	ı	ı	ı	2.3	ı	ı	1	ı
150.0			ı	1	ı	ı	ı	1	3.7	ı	ı	ı	1
150.0	0.09		ı	ı	ı	1	ı	ı	4.1	1	1	ı	ı
153.0	16.0		ı	ı	1	ı	ı	1	8	ı	1	1	ı
153.0	25.0		ı	J	ł	i	ı	ı	4.6	1	ı	ı	ı
153.0	0.0	, ,	ı	ı	١	ı	ı	1	,	ı	ı	1	ı
153.0	000	,,,		1 1		: 1	1	,	1	1	ı	ı	ı
0./61	10.0	0,0	ı	ı	I	I	1				ı	ı	
0./61	0.61	4.0	ı	ı	ı	I	I	I	ı	1	I		

TABLE 4. (cont.)

	DEC.	1	ı	ı	i
	NOV.	1		ı	ı
	ocT.	ı	ı	ı	1
	SEP.	1	ı	ı	!
•	AUG.	ı	ı	ı	1
(cont.	אחב	ı	1	ı	,
n larva	JUNE	ı	ı	ı	1
ed fish	MAY	1	ı	ı	1
Unidentified fish larva (cont.)	APR.	1	1	i	1
Uni	MAR.	,	ı	1	1
	FEB.		ı	1	,
	JAN.	7.5	4.8	1.8	7
Unidentified fish larva (cont.)	STATION JAN. FEB. MAR. APR. MAY JUNE JULY AUG. SEP. OCT. NOV. DEC.	20.0	55.0	70.07	0 08
	STATION	157.0 2	157.0 5	157.0 7	157 0 9

Summary of pooled occurrences of all larval fish taxa taken on CalCOFI surveys from 1951 to 1960. Taxa are listed in the same order as Table 4. TABLE 5.

1959 1960	33 33 172 188 888 92 97 988 97 97 101 101 101 101 101 101 101 10
1958 19	1 1 2 3 3 3 3 5 6 7 5 8 8 8 8 7 7 8 7 8 8 8 8 7 7 8 8 8 8
1957	12 2 3 4 4 1 1 2 3 1 2 1 1 1 2 2 2 2 2 2 2 2 2 2 2
1956	11 164 4 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1955	2 2 1 2 2 1 8 2 2 1 8 2 2 1 8 1 8 1 8 1
1954	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1953	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
1952	2 6 4 4 2 1 2 6 5 4 4 4 2 1 2 6 6 4 4 4 5 6 7 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7
1951	3353 1671 1671 1671 1733 183 183 183 183 184 190 190 190 190 190 190 190 190 190 190
Name	Albula vulpes Anguilliformes Anguilliformes Etrumeus acuminatus Sardinops sagax Engraulidae Engraulidae Argentina sialis Argentina sialis Microstoma microstoma Mansenia crassa Bathylagus spp. Bathylagus spp. Bathylagus spp. Bathylagus spc. Bathylagus spc. Bathylagus spc. Bathylagus spc. Bathylagus schmidti Leuroglossus stilbius Osmeridae Stomiiformes Bathylagus schmidti Leuroglossus stilbius Diplophos taenia Ichtyococcus spp. Vinciguerria lucetia Stomiiformes Stenophyschidae Chaulidus macouni Idiacanthus antrostomus Aristostomia scintillans Bathophilus spp. Tactostoma macropus Stomias atriventer Myctophiformes Anotopterus pharao Evermannellidae Aniopus spp. Scopelosaurus spp. Scopelosaurus spp. Scopelosaurus spp. Scopelosaurus spp. Scopelosaurus spp. Scopelosaurus spp. Baphus spp. Scopelosaurus spp. Baphus spp. Lampadena urophaos Lampadena uroptus regalis

TABLE 5. (cont.)

Name	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Notolychnus valdiviae Notoscopelus resplendens Stenobrachius leucopsarus Triphoturus mexicanus Centrobranchus spp. Diogenichthys spp. Diogenichthys atlanticus Diogenichthys taternatus Electrona rissoi Gonichthys tatuiculus Hygophum spp. Hygophum reinhardtii Hygophum reinhardtii Hygophum reinhardtii Hygophum reinhardtii Hygophum reinhardtii Sphotomyctophum arratum Hygophum mitidulum Hygophum mitidulum Hygophum mitidulum Erotomyctophum arratum Hygophum stratuch Hygophum saira Hygophum stratuch H	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	47 12 47 12 60 12 426 11 814890 6 74 75 11 12 14 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	5367 5407	40	74	39 1 3 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2311 41030 410	73 2 2 3 3 2 3 3 3 3 5 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1	888 12 10880 021 24880 021 072 41 41002010 4 4 1 1 821 2 248817101081740487098184188811011410127088011
Syngnathus spp.	ıΩ	9	12	4	19	2	S	2	Э	7

TABLE 5. (cont.)

Мате	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Agonidae Anoplopoma fimbria Cottidae Scorpaenichthys marmoratus Cyclopteridae Hexagrammidae Ophlodon elongatus Oxulebius nictus	V 4044	38 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 22 16 16 16	23 179 179 18	10 87 84	1337 7	1	20 20 4 4 12	81744116	81091116
Cantolepis spp. Scorpaenidae Scorpaens spp. Schastes spp. Schastes spp. Schastolobus spp. Prionotus spp. Blennioidei Bathymasteridae Hypoblennius spp.	10 600 24 24 18	686191 11966194 3211966194	771 22 122 138	8411 113 127 19	6 3 4 1 1 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 30 3 58 3 58 3 58 14	6 6 9 1 6 5 6 9 1 6 5 6 9 1 6 5 6 9 1 6 6 9 1 6 6 9 1 6 6 9 1 6 6 9 1 6 6 9 1 6 6 9 1 6 6 9 1 6 6 9 1 6 6 9 1 6 6 9 1 6 6 9 1 6 6 9 1 6 6 9 1 6 6 9 1 6 6 9 1 6 6 9 1 6 6 9 1 6 6 9 1 6 9 1 6 6 9 1 6	120 1 180 120 120 120 120 120 120 120 120 120 12	5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Gobiidae Icosteus aenigmaticus Ichridae Pomacentridae Chromis punctipinnis Hypsypops rubicundus Mugil spp. Apogonidae Brama spp.	116 74 74 37 2 15	107 135 27 27 11	0 0 01	11.2 124.1 2.1 2.1 2.1 2.1 3.0 9.0	00 C	339 118 188 188 198	122 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	84 82 16 16 15 15	108 1122 118 108 20 20 20 20	3 2 2 3 3 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5
Seriola spp. Seriola lalandi Trachurus symmetricus Coryphaena hippurus Gerreidae Haemulidae Girella nigricans Medialuna californiensis Mullidae	372111911	419	32211	373 373 11 12 12	8 9621 1117841	211 2177 6 6 3	20 20 20 20 20 10 10 10 10	32 128 128 122 122 122 122 133	286 286 27 11 10 10	2 2 1 2 2 2 7 7 7 8 8 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Priacanthidae Sciaenidae Scranidae Gempylidae Scombridae Auxis spp. Euthynnus spp. Sarda chiliensis Scomber japonicus Scomberomorus spp.	202 202 199 199	29 29 11 11 73	30 10 10 1	290 290 1119	931112111	188110140H	23 23 7 11 71	37 E 31 6 8 1 3 4 6 8 1 3 4 6 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8	25 93 4611 25 93 4611	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7

136	Name	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
trea indicates		1 1	-		-			-	1	1 1	1
trea properties	Thunnus albacares	1	1	1	4	1	1	1	8	2	1
indeconic 124 129 114 125 105 94 75 75 75 75 75 75 75 75 75 75 75 75 75		23	31	16	36	25	28	47	24	61	
integration of the control of the co		125	139	ر 114	125	105	4 C	70	79	77	
Section Sect) I	1	1 1	1	1 1) !	, v	2 2	, 0	
response to the following state of the follow	Peprilus simillimus	1.4	50	28	38	47	34	37	26	22	
tes	Tetragonurus cuvieri	29	17	ω,	10	65	146	124	17	26	
Page	Chiasmodontidae	2.4	3.3	91	31	5.4	14	7,5	υς	75	
pp. 13 48 46 13 6 5 11 pp. ragilis 428 524 561 147 158 82 14 8 11 ragilis 428 524 561 147 158 82 101 8 101 8 101 8 101 102 103 104 103 105 103 105 103 105 103 105 103 106 109 106 109 109 109 106 109 109 106 109	Uranoscopidae	→ 0	1 4	1 4	1 ,	1 0	1 1	٦.	→;		
Photographics	Pleuronectiformes	ת	13	48	46	13	٥	c C	11	ر د	
pp. 13 428 524 561 147 158 82 127 118 raggins 128 524 561 147 158 82 127 118 raggins 128 169 56 59 62 69 66 69 66 69	Bothidae	10	- 1	1 -	۱۲	۱ -	۱۲	1 <	1 0	1 <	
raginis	BOCHUS SPP.	7 0 0	1 4	۲.	2 ,		7 (, ,	00	3" "	
Tatopins Tat	Citharichtnys spp.	478	574	195	14/ Car	128	200	177	877	121	
tigmaeus			1	ı	707	/07	J J	C 7 T	T 0 T	an T	
tignatus 109 56 59 62 69 69 40 69 69 69 69 69 69 69 69 69 69 69 69 69	_	1	ı	ı	1 0	1 4	1 6	1 (I	٦,	
tignateus - - - 347 206 207 191 136 tignateus -		ı	ı	ı	109	56	59	62	69	48	
anthostigma - - 189 163 106 208 80 tomata 1 - - 4 - - 16 16 106 208 80 tomata 1 - - - - - - 16 18 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 <	S	ı	ı	ı	347	206	207	191	136	134	
pp. tomata 1 - - 4 - 16 17 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 4 4 4 4 3 3 4	S	1	1	1	189	163	106	208	80	118	
pp. tomata 13 27 42 57 22 34 44 33 temata 13 27 42 57 22 34 44 33 tiferricus 18 50 19 42 22 23 30 48 epis 3 16 10 5 4 1 7 2 zachirus 12 25 6 9 5 8 11 14 tulata 12 25 6 9 5 8 11 14 pis 20 17 30 19 26 20 spin 14 14 16 18 7 13 decurrens 4 4 4 2 4 2 3 4 decurrens 14 14 14 14 14 4 4 4 4 4 4 4 4 4	Etropus spp.	ł	í	ı	4	ı	1	16	16	20	
técmata 13 27 42 57 22 34 44 33 pirfornicus 18 50 19 42 22 23 44 13 epis 3 6 9 22 23 30 48 epis 3 6 9 5 8 11 14 total 12 25 6 9 5 8 11 14 total 12 25 6 9 5 8 11 14 total 12 2 2 2 2 1 4 total 14 10 18 23 18 7 13 decursers 4 4 4 2 4 2 3 4 decursers 4 4 4 4 2 4 2 3 4 decursers 4 4 4 4 <td>Hippoglossina spp.</td> <td>7</td> <td>ı</td> <td>ı</td> <td>ı</td> <td>1</td> <td>1</td> <td>1</td> <td>ı</td> <td>1</td> <td></td>	Hippoglossina spp.	7	ı	ı	ı	1	1	1	ı	1	
Differenticus	Hippoglossina stomata	13	27	42	57	22	34	44	33	32	
lifernicus 18 50 19 42 22 23 30 48 epis 3 2 2 2 6 8 48 zachirus 12 25 6 9 5 8 11 14 tulata 12 25 6 9 5 8 11 14 pis 21 6 9 5 8 11 14 pis 31 45 51 50 36 20 50 sph 14 14 10 18 23 18 7 13 decurrens 1 4 4 4 2 4 5 3 4 decurrens 1 4 4 2 4 5 3 4 ricticalis 3 44 24 31 4 5 3 4 lanostictus 4 5 4<	Paralichthys spp.	1	ı	ı	ı	ı	1	1	٦	ı	
epis 5 1 3 - 2 6 8 sachirus 12 25 6 9 5 8 11 14 tulata 12 25 6 9 5 8 11 14 pis 5 8 11 - - - - - - 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 3 3 4 5 6 2 8 1 1 4 2 1 4 2 2 2 2 2 2 2 2 2 3 6 2 3 6 2 2 2 2 3 4 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4<	Paralichthys californicus	18	20	19	42	22	23	30	48	37	
epis 3 16 10 5 4 1 7 2 zachirus 12 25 6 9 5 8 11 14 tulata 12 25 6 9 5 8 11 14 tulata 12 25 6 116 57 74 90 50 ificus 28 30 17 30 19 26 20 spp. 28 30 17 30 36 36 26 20 spp. 31 45 51 50 36 39 62 20 spp. 31 4 4 4 4 2 4 2 3 4 decurrens 1 8 9 4 5 3 4 4 2 4 5 3 4 decurrens 1 8 9 4 2	Syacium ovale	2	2	1	m	1	2	9	80	80	
zachirus 2 1 2 1 4 6 4 5 3<	Xystreurys liolepis	m	16	10	2	4	٦	7	2	2	
zachirus 12 25 6 9 5 8 11 14 pis 1 - - - - - 1 3 pis 5 6 1 - - - 1 1 3 pis 5 1 1 1 5 1 5 0 5 sificus 28 30 17 17 30 19 26 20 us 31 45 51 50 36 39 62 20 sopp. 17 13 11 17 3 13 4	Eopsetta jordani	1	7	ı	ı	ı	ı	1	ı	ı	
tulata pis s pis s ificus s <td>Glyptocephalus zachirus</td> <td>12</td> <td>25</td> <td>9</td> <td>6</td> <td>S</td> <td>80</td> <td>11</td> <td>14</td> <td>80</td> <td></td>	Glyptocephalus zachirus	12	25	9	6	S	80	11	14	80	
pis 1 2 1 2 2 2 2 2 2 2 2 3 4 5	Hypsopsetta guttulata	ı	I	2	ı	1	1	٦	٣	1	
ificus is 18	Isopsetta isolepis	1	ı	ı	ı	1	ı	ı	٦	ı	
ificus 28 30 17 17 30 19 26 20 spp. 4 45 51 50 36 36 20 spp. 14 14 10 18 23 18 7 13 decurers 17 6 13 11 17 3 5 5 decurers 1 4 4 2 4 2 3 4 richarticalis 3 44 24 31 26 33 40 7 lanostictus 4 5 6 35 11 49 80 40 1 5 6 36 35 11 49 80 40 1 6 3 3 4 5 5 5 1 6 3 3 3 4 6 4 6 1 6 3 3	Lyopsetta exilis	51	80	89	116	57	74	06	20	48	
us us us coenosus 14 14 10 18 23 18 7 13 coenosus 17 6 13 11 17 3 62 decurrens 4 4 4 4 2 4 2 3 4 ritteria 3 44 24 31 26 33 40 7 lanostictus 45 50 36 35 11 49 80 40 lish larva 229 253 74 63 124 103 193 258 sh larva 187 218 284 161 99 100 129 181	Microstomus pacificus	28	30	17	17	30	19	26	20	20	
Spp. 14 14 10 18 23 18 7 13 decurses. 17 6 13 11 17 3 5 5 5 decurses. 4 4 4 2 4 2 3 4 ritteri 3 44 24 31 26 33 40 7 verticalis 3 44 24 31 26 33 40 7 Innostictus 45 50 36 35 11 49 80 40 1 2 3 3 4 40 40 40 1 2 3 3 4 4 1 2 3 3 4 4 1 4 9 80 40 2 3 4 6 4 1 2 3 4 1 1 4 9 10 129 181 1 4 6 10 129 181 2 3 4 6 4 6 2 3 4 6 4 6 <t< td=""><td>Parophrys vetulus</td><td>1</td><td>31</td><td>45</td><td>51</td><td>50</td><td>36</td><td>39</td><td>62</td><td>29</td><td></td></t<>	Parophrys vetulus	1	31	45	51	50	36	39	62	29	
coenosus 17 6 13 11 17 3 5 5 Accurrens 4 4 4 2 4 2 3 4 ricticalis 3 44 24 31 26 33 40 7 lanostictus 4 24 31 26 35 1 40 7 lanostictus 45 50 36 35 11 49 80 40 sch larva 229 253 74 63 124 103 193 258 sch larva 187 218 284 161 99 100 129 181	Pleuronichthus spp.	14	14	10	18	23	18	7	13	7	
decurrens 4 4 4 4 2 4 2 3 4 ritteri 1 4 24 31 26 3 4 3 ritteri 3 4 24 31 26 3 4 lanostictus 45 50 36 35 11 49 80 40 lish larva 229 253 74 63 124 103 193 258 sh larva 187 218 284 161 99 100 129 181		17	9	13	11	17	m	. 2	2	· LO	
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Innostictus -		ım	44	24	31	26	33	40	7	7	
45 50 36 35 11 49 80 40 1	Psettichthus melanostictus	1	1	1	ī	1	-	. 2	· LO	m	
ish larva 229 253 74 63 124 103 193 258 181 larva 187 218 284 161 99 100 129 181	Symphurus spp.	45	50	36	35	11	4	80	40	75	
ish larva 229 253 74 63 124 103 193 258 sh larva 187 218 284 161 99 100 129 181	Balistidae	7	1	1	1	ı	ı	1	7	1	
229 253 74 63 124 103 193 258 187 218 284 161 99 100 129 181	Tetra odontidae`	2	ı	ı	1	7	ı	ı	1	1	
187 218 284 161 99 100 129 181	Disintegrated fish larva	229	253	74	63	124	103	193	258	361	
	Unidentified fish larva	187	218	284	191	66	100	129	181	272	343

TABLE 6. List of stations which were occupied twice in one month during 1959.

Stat	ion	Month
83.0 87.0 87.0 87.0 90.0 90.0 90.0 123.0 119.0 120.0 120.0	70.0 60.0 70.0 80.0 90.0 60.0 70.0 80.0 90.0 42.0 33.0 25.0 30.0	Month 2 2 2 2 2 2 2 2 2 2 6 6 6 8
103.0	35.0 40.0	8

INDEX

This index lists taxa included in Table 4 with their page numbers.

	Page
Anguilliformes	91
Clupeidae	91
Etrumeus acuminatus	
Opisthonema spp	
Sardinops sagax	
Engraulidae	
Engraulis mordax	94
Salmoniformes	
Argentinidae	
Argentina sialis	
Microstoma microstoma	
Nansenia candida	
Nansenia crassa	
Bathylagidae	
Bathylagus spp	
Bathylagus milleri	
Bathylagus ochotensis	
Bathylagus pacificus	
Bathylagus wesethi	
Leuroglossus stilbius	
Stomiiformes	
Gonostomatidae	
Cyclothone spp	
Diplophos taenia	
Ichthyococcus spp	
Vinciguerria lucetia	
Sternoptychidae	123
Stomiatoidea	
Chauliodontidae	
Chauliodus macouni	
Idiacanthidae	
Idiacanthus antrostomus	
Malacosteidae	
Aristostomias scintillans	
Melanostomiidae	
Bathophilus spp	
Tactostoma macropus	
Stomiidae	
Stomias atriventer	
Myctophiformes	
Alepisauroidei	
Evermannellidae	
Paralepididae	
Chloropthalmoidei	
Notosudidae	
NOCOSUUTUAE	

	Page
Scopelosaurus spp	133
Scopelarchidae	133
Myctophoidei	
Myctophidae	135
Lampanyctinae	
Ceratoscopelus townsendi	139
Diaphus spp	143
Lampadena urophaos	145
Lampanyctus spp	147
Lampanyctus regalis	150
Lampanyctus ritteri	151
Notolychnus valdiviae	155
Notoscopelus resplendens	156
Stenobrachius leucopsarus	157
Triphoturus mexicanus	160
Myctophinae Diogenichthys spp	166
Diogenichthys atlanticus	168
Diogenichthys laternatus	169
Electrona rissoi	173
Gonichthys tenuiculus	173
Hygophum spp	175
Hygophum atratum	177
Hygophum reinhardtii	179
Loweina rara	180
Myctophum aurolaternatum	180
Myctophum nitidulum	180
Protomyctophum crockeri	182
Symbolophorus californiensis	186
Tarletonbeania crenularis	188
Synodontoidei	
Synodontidae	
Synodus spp	190
Gadiformes	
Bregmacerotidae	
Bregmaceros spp	191
Merlucciidae	
Merluccius productus	191
Moridae	
Physiculus spp	195
Macrouridae	195
Ophidiiformes	196
Bythitidae	100
Brosmophysis marginata	196
Ophidiidae Chilara taylori	197
	197
Ophidion scrippsae	19/
Ceratioidei	198
Lophioidei	190
Lophiidae	199
Beloniformes	

	Page
Exocoetidae	199
Scomberesocidae	200
Cololabis saira	200
Atheriniformes	
Atherinidae	200
Lampriformes	
Trachipteridae	200
Beryciformes	
Melamphaidae	
Melamphaes spp	200
Poromitra spp	204
Scopelogadus bispinosus	204
Syngnathiformes Macroramphosidae	
Macroramphosus gracilis	205
Syngnathidae	205
Syngnathus spp	205
Scorpaeniformes	203
Cottoidei	
Agonidae	205
Cottidae	206
Scorpaenichthys marmoratus	206
Cyclopteridae	207
Hexagrammidae	207
Oxylebius pictus	207
Zaniolepis spp	207
Scorpaenoidei	
Scorpaenidae	207
Scorpaena spp	207
Sebastes spp	208
Sebastolobus spp	212
Triglidae	
Prionotus spp	213
Perciformes	
Blennioidei	
Blenniidae	
Hypsoblennius spp	213
Clinidae	214
Gobioidei	
Gobiidae	214
Icosteoidei	
Icosteidae	
Icosteus aenigmaticus	216
Labroidei	
Labridae	216
Pomacentridae	218
Chromis punctipinnis	219
Hypsypops rubicundus	219
Mugiloidei	
Mugilidae	000
Mugil spp	220

	Page
Apogonidae Bramidae	220
Brama spp. Carangidae Seriola spp. Seriola lalandi Trachurus symmetricus Coryphaenidae	220 220 221 221 222
Coryphaena hippurus Gerreidae Haemulidae Kyphosidae	225 226 226
Girella nigricans	227 227
Caulolatilus princeps Mullidae Priacanthidae Sciaenidae Serranidae	227 227 227 228 229
Scombroidei Gempylidae Scombridae Auxis spp. Euthynnus spp. Sarda chiliensis Scomber japonicus Scomberomorus spp. Thunnus albacares Trichiuridae Sphyraenoidei	230 230 231 231 231 233 233 233
Sphyraenidae Sphyraena argentea Stromateoidei	234
Centrolophidae Icichthys lockingtoni Nomeidae Stromateidae Peprilus simillimus Tetragonuridae	235 236 236
Tetragonurus cuvieri	237
Chiasmodontidae	238 239 239
Bothidae Bothus spp Paralichthyidae	239
Citharichthys spp. Citharichthys fragilis Citharichthys platophrys	239 241 242

	Page
Citharichthys sordidus Citharichthys stigmaeus Citharichthys xanthostigma Etropus spp. Hippoglossina stomata Paralichthys californicus Syacium ovale	242 243 245 247 247 248 249
Xystreurys liolepis	249
Pleuronectidae Glyptocephalus zachirus Lyopsetta exilis Microstomus pacificus Parophrys vetulus Pleuronichthys spp. Pleuronichthys coenosus Pleuronichthys decurrens Pleuronichthys ritteri Pleuronichthys verticalis	249 249 250 251 251 252 252 252 252
Psettichthys melanostictus	252
Soleoidei Cynoglossidae	
Symphurus spp	252
Disintegrated fish larva	254
Unidentified figh leave	250

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